

Perspectives of Neurodiverse Participants in Interactive Information Retrieval

Other titles in Foundations and Trends® in Information Retrieval

Quantum-Inspired Neural Language Representation, Matching and Understanding

Peng Zhang, Hui Gao, Jing Zhang and Dawei Song

ISBN: 978-1-63828-204-4

Pre-training Methods in Information Retrieval

Yixing Fan, Xiaohui Xie, Yinqiong Cai, Jia Chen, Xinyu Ma, Xiangsheng Li, Ruqing Zhang and Jiafeng Guo

ISBN: 978-1-63828-062-0

Fairness in Information Access Systems

Michael D. Ekstrand, Anubrata Das, Robin Burke and Fernando Diaz

ISBN: 978-1-63828-040-8

Deep Learning for Dialogue Systems: Chit-Chat and Beyond

Rui Yan, Juntao Li and Zhou Yu

ISBN: 978-1-63828-022-4

Search Interface Design and Evaluation

Chang Liu, Ying-Hsang Liu, Jingjing Liu and Ralf Bierig

ISBN: 978-1-68083-922-7

Perspectives of Neurodiverse Participants in Interactive Information Retrieval

Laurianne Sitbon

Queensland University of Technology
l.sitbon@qut.edu.au

Gerd Berget

Oslo Metropolitan University
gerd.berget@oslomet.no

Margot Brereton

Queensland University of Technology
m.brereton@qut.edu.au

now

the essence of knowledge

Boston — Delft

Foundations and Trends® in Information Retrieval

Published, sold and distributed by:

now Publishers Inc.
PO Box 1024
Hanover, MA 02339
United States
Tel. +1-781-985-4510
www.nowpublishers.com
sales@nowpublishers.com

Outside North America:

now Publishers Inc.
PO Box 179
2600 AD Delft
The Netherlands
Tel. +31-6-51115274

The preferred citation for this publication is

L. Sitbon, G. Berget and M. Brereton. *Perspectives of Neurodiverse Participants in Interactive Information Retrieval*. Foundations and Trends® in Information Retrieval, vol. 17, no. 2, pp. 124–243, 2023.

ISBN: 978-1-63828-203-7

© 2023 L. Sitbon, G. Berget and M. Brereton

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanical, photocopying, recording or otherwise, without prior written permission of the publishers.

Photocopying. In the USA: This journal is registered at the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by now Publishers Inc for users registered with the Copyright Clearance Center (CCC). The 'services' for users can be found on the internet at: www.copyright.com

For those organizations that have been granted a photocopy license, a separate system of payment has been arranged. Authorization does not extend to other kinds of copying, such as that for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. In the rest of the world: Permission to photocopy must be obtained from the copyright owner. Please apply to now Publishers Inc., PO Box 1024, Hanover, MA 02339, USA; Tel. +1 781 871 0245; www.nowpublishers.com; sales@nowpublishers.com

now Publishers Inc. has an exclusive license to publish this material worldwide. Permission to use this content must be obtained from the copyright license holder. Please apply to now Publishers, PO Box 179, 2600 AD Delft, The Netherlands, www.nowpublishers.com; e-mail: sales@nowpublishers.com

Foundations and Trends[®] in Information Retrieval

Volume 17, Issue 2, 2023

Editorial Board

Editors-in-Chief

Diane Kelly

University of Tennessee
USA

Pablo Castells

University of Madrid
Spain

Yiqun Liu

Tsinghua University
China

Editors

Barbara Poblete

University of Chile

Chirag Shah

University of Washington

Claudia Hauff

Delft University of Technology

Dawei Yin

Baidu inc.

Ellen M. Voorhees

*National Institute of Standards and
Technology*

Hang Li

Bytedance Technology

Isabelle Moulinier

Independent

Jaap Kamps

University of Amsterdam

Lorraine Goeriot

Université Grenoble Alpes

Lynda Tamine

University of Toulouse

Maarten de Rijke

*University of Amsterdam and Ahold
Delhaize*

Mandar Mitra

Indian Statistical Institute

Rodrygo Luis Teodoro Santos

Universidade Federal de Minas Gerais

Ruihua Song

Renmin University of China

Shane Culpepper

RMIT

Xiangnan He

*University of Science and Technology of
China*

Xuanjing Huang

Fudan University

Yubin Kim

Etsy

Zi Helen Huang

University of Queensland

Editorial Scope

Topics

Foundations and Trends® in Information Retrieval publishes survey and tutorial articles in the following topics:

- Applications of IR
- Architectures for IR
- Collaborative filtering and recommender systems
- Cross-lingual and multilingual IR
- Distributed IR and federated search
- Evaluation issues and test collections for IR
- Formal models and language models for IR
- IR on mobile platforms
- Indexing and retrieval of structured documents
- Information categorization and clustering
- Information extraction
- Information filtering and routing
- Metasearch, rank aggregation and data fusion
- Natural language processing for IR
- Performance issues for IR systems, including algorithms, data structures, optimization techniques, and scalability
- Question answering
- Summarization of single documents, multiple documents, and corpora
- Text mining
- Topic detection and tracking
- Usability, interactivity, and visualization issues in IR
- User modelling and user studies for IR
- Web search

Information for Librarians

Foundations and Trends® in Information Retrieval, 2023, Volume 17, 5 issues. ISSN paper version 1554-0669. ISSN online version 1554-0677. Also available as a combined paper and online subscription.

Contents

1	Introduction	2
1.1	Motivations	2
1.2	Scope	6
1.3	Overview	11
2	Neurodiverse Users	13
2.1	Perspectives on Diversity	13
2.2	Neurodiversity	18
2.3	How Neurodiverse Users Engage in IIR	24
3	Design Frameworks and Approaches	34
3.1	Designing Interactions (Not Interfaces)	34
3.2	Design Frameworks and Philosophies	37
3.3	Inclusive Participatory Design Methods	43
4	Inclusive IIR Systems	52
4.1	Accessible and Inclusive IIR Designs	52
4.2	Technologies Supporting Inclusion in IIR Systems	57
4.3	Inclusive IIR Design Guidelines	59
5	Including Neurodiverse Participants in IIR User Studies	67
5.1	Supporting Participation in Mainstream Methods	68

5.2	Creating Accessible Probes	73
5.3	Formal Ethical Considerations	78
6	Inclusive Futures for IIR	87
6.1	Moving Forward Inclusively	87
6.2	Conversational Systems	91
6.3	Accessing Information for Communication	94
6.4	Conclusion	95
	References	96

Perspectives of Neurodiverse Participants in Interactive Information Retrieval

Laurianne Sitbon^{1*}, Gerd Berget² and Margot Brereton³

¹*Queensland University of Technology, Australia; l.sitbon@qut.edu.au*

²*Oslo Metropolitan University, Norway; gerd.berget@oslomet.no*

³*Queensland University of Technology, Australia;
m.brereton@qut.edu.au*

ABSTRACT

This monograph offers a survey of work to date to inform how interactions in information retrieval systems could afford inclusion of users who are neurodiverse. This existing work is positioned within a range of philosophies, frameworks and epistemologies which frame the importance of including neurodiverse users in all stages of research and development of Interactive Information Retrieval (IIR) systems. The monograph also offers examples and practical approaches to include neurodiverse users in IIR research, and explores the challenges ahead in the field.

*Associate Professor Laurianne Sitbon is the recipient of an **Australian Research Council Future Fellowship** (project number FT190100855) funded by the Australian Government.

Laurianne Sitbon, Gerd Berget and Margot Brereton (2023), “Perspectives of Neurodiverse Participants in Interactive Information Retrieval”, *Foundations and Trends® in Information Retrieval*: Vol. 17, No. 2, pp 124–243. DOI: 10.1561/1500000086.

©2023 L. Sitbon, G. Berget and M. Brereton

1

Introduction

This survey of work is presented to students, researchers and practitioners in the field of interactive information retrieval (IIR), with a view to provide both knowledge and inspiration towards more inclusive IIR approaches and systems. We introduce the survey by motivating the need for inclusive IIR to develop more broadly, and detail why assistive technologies are not sufficient to ensure inclusive access to information. We clarify the scope of the survey and situate its benefits specifically with regards to relevance to IIR. Finally, we present an overview of each of the sections to guide the reader to parts of the survey that may be most relevant to the work they are undertaking.

1.1 Motivations

This survey is motivated by the authors' desire to help transform IIR so that neurodiverse users can both inspire future research and benefit from innovation. While neighbouring fields such as Human Computer Interactions and Accessibility are engaging with users of all abilities and identifying technology's opportunities and barriers, neurodiverse users are seldom represented in IIR literature. We clarify why we believe that assistive technologies, while often used by neurodiverse users to engage

in information seeking tasks, should not be considered as an alternative to engaging with neurodiverse users in the design and development of IIR frameworks, algorithms and systems.

1.1.1 Neurodiversity

We chose to align the overall aim of this work, as well as our overarching statements, with the concept of neurodiversity, rather than with that of cognitive deficits or learning disabilities. We will develop the associated philosophies and terminology in Section 2. However, throughout the survey, we will, when appropriate, use the terminology used by the authors of the paper to which we refer.

Neurodiversity generally refers to autism spectrum disorders, developmental speech disorders, dyslexia, dyspraxia, dyscalculia, dysnomia, intellectual disability and Tourette syndrome, as well as schizophrenia. Estimates of prevalence vary, and many people do not receive a diagnosis, for a range of reasons. For example, estimates suggest that the prevalence of dyslexia is between 5 and 20 percent. However, this diagnosis has long focused only on people exhibiting difficulties with reading (Wagner *et al.*, 2020). Intellectual disability is estimated with a prevalence between 1 and 3 percent, however, definitions and thus diagnoses vary.

We also recognise that there is no agreed-upon definition of neurodiversity, and that neurodiverse individuals without learning disabilities sometimes feel that the expression has become too broad and no longer recognise themselves in it. It is likely that some neurodiverse individuals do not need to be supported to access IIR systems or to participate in IIR research, and we discuss this further in Section 1.2.2 with regards to the scope of this work. Furthermore, the concept of cognitive deficit also refers to temporary states, such as those caused by alcohol intoxication, illness or fatigue.

1.1.2 Recognising Diverse Abilities

Diversity, and particularly neurodiversity, exists on a spectrum. Recognising other ways of interacting with systems, which tend to be exacerbated when users are identified or identify with particular categories

of neurodiversity, can help design and imagine systems that will better respond to the needs and diverse ways of interacting of all users. A classical example is that of the television remote control that was initially created for users who could not move, and eventually found widespread adoption among the general population. We believe that the unique ways neurodiverse users may engage or wish to engage with IIR systems could similarly challenge IIR researchers and designers to think creatively and differently.

Conversely, if neurodiverse users are ignored during the development of new styles of interactions, the resulting technologies could impose rigid cognitive demands that do not match the abilities of neurodiverse users. This development could broaden the digital divide, and effectively exclude a part of the population from independently accessing information.

This survey hopes to provide all researchers in the field of Interactive Information Retrieval (IIR) knowledge, guidelines and tools to make sure their future research can best recognise the diverse abilities of users that their systems or designs intend to serve.

1.1.3 Representativity of Neurodiverse Users in IIR Research

While there exist several published studies of information behaviours of neurodiverse users, few have been presented to IIR audiences. Information behaviour studies particularly point to the barriers neurodiverse users encounter when seeking information online, often also in relation to web accessibility more broadly.

We searched the ACM digital library for publications sponsored by SIGIR (which include SIGIR, JCDL, CIKM and CHIIR), as well as IiX, in the last 20 years (between 2002 and 2021). Using the keywords (*disability OR disabilities OR dyslexia OR neurodiverse OR autism OR “down syndrome” OR ADHD OR dementia*) in the title or the abstract only returned 32 results. 26 of these were research papers (short or long). We manually inspected their abstracts to find that 23 are actually relevant to IIR. One addresses children with autism, nine address people with dyslexia, five focus on people with intellectual disability, two broadly address inclusive design and cognitive abilities,

three consider users with physical disability and two address users with visual disability.

Increasing the representation of neurodiverse users in the IIR literature, to which this survey contributes, is more likely to support interest in the study and design of inclusive IIR systems in the future.

1.1.4 From Assistive Technology to Inclusive IIR

Technology can present both challenges and opportunities for people with diverse abilities, and the domain of assistive technologies has embraced both of these. Assistive technologies provide a supportive layer between people and activities that they could not otherwise perform. For example, the television remote control enables a person with limited mobility to operate a TV without moving towards it. Screen readers allow people who cannot see documents on a screen to hear the text of these documents. However, neither the remote control nor the screen reader can operate if the TV, or the document, are not designed to support their operation. Consequently, to be accessible, technologies must be designed in a way that is compatible with assistive technologies, by following existing standards and/or accessibility guidelines.

Accessibility has long been seen as the domain of researchers and people defining standards for “interfaces”, and of those creating tools to help people with diverse abilities get access to these systems. Screen readers are a good example, where standards for online document accessibility have been set so that every image has corresponding text, which in turn can be read by screen readers. However, documents that are designed without consideration for people using screen readers could end up with formats that have no logical coherence, or order, as they are relying on a model of their readers having visual abilities. In the domain of online documents, such as web pages, the developing diversity of devices, screen sizes, and now audio devices, has pushed web designers to consider diverse ways their content is accessed by a wide range of users. In turn, the community has embraced this diversity with new approaches. For example, voice search is receiving attention from both research and commercial communities, and is now enabled on all devices, and accessible either through web interfaces or native voice interfaces (such as Google talk[®] or Siri[®]).

Inclusive technology offers an alternative to the dynamic of creating new technology, building assistive technologies to access it, and establishing accessibility standards for these to work. Inclusive technologies attempt to recognise users' diverse abilities, or situations, as part of the interactions they offer. Inclusive technologies will enable more people to participate without the need for new assistive technologies. Like Universal Design (which we develop in Section 3.2), including everyone is an aspiring goal; researchers should continue to be attentive to individuals or communities to whom technology remain inaccessible, and design with them. This approach requires that accessibility and assistive technologies are no longer the domain of a few experts in the field, or even in a different subject area. Instead, an inclusive IIR field will require that everyone understands the perspectives of diverse users, and embraces their inclusion in ongoing development.

1.2 Scope

In this section, we delineate the scope of the work reviewed in this monograph. It is difficult to draw a clear line to determine which works we have deemed relevant, and which topics to cover. We delineate what we believe makes IIR a relevant scope for this work, with an emphasis on users and their ways on engaging with interactive systems. We begin to clarify our choice to focus on neurodiversity rather than a specific or a set of diagnoses or disabilities, and how diverse sets of abilities may be relevant to examine as part of IIR explorations. We finally clarify our methodological standpoint, with an emphasis on the participation of users in the research.

1.2.1 Interactive Information Retrieval

By 2023, it has become difficult to precisely define to what the terms 'information retrieval' and 'interactive information retrieval' refer. Information retrieval (IR) has become ubiquitous, often a component of a broader interactive system whose purpose may not be to access information or acquire knowledge. This means that while users and their values underpin current systems, users are often not considered or consulted.

Users at the Heart of IIR

IIR departs from IR in explicitly considering the users, concerning how and why they interact with IR systems. Users, as individuals, cohorts, or more broadly, bring to the interaction with IR systems their own contexts, interests (sometimes expressed as topics), values, abilities and knowledge.

Interests are important to address from the perspective of how collections of documents should be formed, what types of queries should be managed as a matter of priority, providing support for using the information. Lab-based IR evaluation drives a lot of research in IR, and encourages researchers to explore new algorithms or approaches that can in turn offer new types of interactions to users. However, they tend to be either inspired by users, or created from user-generated content emerging from platforms that are potentially inaccessible to neurodiverse users. As a result, they may ignore the interests and approaches of neurodiverse users. For example, queries collected from web-search engine logs are likely to under-represent neurodiverse users who may not be able to access the commercial system they are derived from. In turn, progress made towards adapting systems to diverse types of queries people are interested in, or to address the diversity of ways these queries are expressed, may not benefit neurodiverse users.

Understanding users' interests can also be an opportunity to build user's expertise in using IIR systems and learning their mental models, as they can motivate use even when cognitive demands are high. The ASK hypothesis (Belkin *et al.*, 1982) builds on users' knowledge by characterising information sought as filling in a gap in knowledge. However, in some scenarios, such as entertainment or retrieving details about a known topic, knowledge becomes a starting point for interacting with the system. Knowledge can also support understanding, as is obvious with expert vocabulary.

There can be a tendency from IR researchers focusing on systems and algorithms to make assumptions about user experiences, and a temptation to consider users' abilities from the perspective of multi-modality. That is, a computerised view of users' abilities could form a mapping to interaction modalities, resulting in an assumption that

multi-modal systems would be sufficient to address any set of user's abilities. For example, systems that offer speech-to-text and text-to-speech (conversational voice assistants) are often presented as solutions to support people with actual or situational vision impairments. However, a text-to-speech system may only be usable under certain circumstances, and could limit the type of information a user could access. Regarding the previous example concerning images, even if they are captioned, they would typically not be included in interactions with conversational voice assistants. Instead, a deep understanding of users, their abilities, and their desires for accessing information, can contribute rich multi-modal designs that are inclusive.

The *Interactive* in IIR

As a research field, IIR can make explicit some of the implicit values encoded in IR models and systems, which are often assumed and/or modeled on the designer's own values. Some examples of this are information quality (which relates to trust), and time spent interacting with the system and information (which is sought to be minimized by optimal rankings). IIR can offer investigations and solutions that address parts of an IR system, or can offer entirely new models that embed this understanding. For example, economical models of search (Azzopardi, 2014) build on an understanding of how (most) users value time in order to derive ranking and Search Engine Results Pages (SERPs) models.

IIR also departs from the input/output modelling of several IR systems, and encompasses systems that rely on, learn from, and acknowledge continuous interaction with one or more users. IIR can also contribute with important input regarding search user interface design, by understanding the best way to support users before, during and after searching.

Interactive systems may present an information component, and this survey includes them if this component is reported in the research. For example, we will cover some research that pertains to multimedia information access, such as videos, and this can include how people learn from videos. However, we will not cover research that solely investigates video creation, or video sharing behaviours. We exclude from this survey

research that explores how people use and access libraries, and only focus on online information access through interactive systems.

1.2.2 Neurodiverse IIR Users

Neurodiversity is not a single trait, and people who may identify, or be identified by researchers, as neurodiverse, do not form a homogeneous group. In this work, we specifically consider neurodiverse individuals who share a perception or experience that commercial IIR systems as they are do not meet their ways of working, thinking or their needs to an extent that they are difficult to use. This does not assume that neurodiverse individuals who have developed strategies to engage with standard systems should not be considered in research, but it is possible that such individuals are not diagnosed, or that they are already taking part in IIR research amongst cohorts of participants. The paucity of research that investigates these strategies is also problematic but out of our scope.

All neurodiverse people have a universal right to access these systems with their existing abilities. With this in mind, we do not include in this work research involving people who may not be comfortable to experience systems or experimental settings because they do not have pre-requisite knowledge and experience. This would include people in developing regions, or people who do not master the language in use by the system/experimental framework. We acknowledge that more research is needed to address the needs of these users. These needs, however, can be seen as contextual and temporary.

This survey mainly presents concepts and work related to neurodiverse users who have dyslexia or intellectual disability, as this cohort is most represented in the work that specifically addresses neurodiversity in IIR (see Section 1.1.3). These neurodiverse ways of processing information and interacting cover a wide range of abilities and support requirements, and illustrate how to consider unique as well as patterned combinations of abilities and support requirements when including neurodiverse users. The approaches we will present can thus be applied to working with other patterned communities of neurodiverse users (users sharing similar ways of thinking and doing), such as people with aphasia,

people with dementia (sometimes referred to as cognitive decline), and people on the autism spectrum.

1.2.3 Research Methods

Most of the existing knowledge of how neurodiverse users engage with IIR systems, which we cover in Section 2.3.2, has been gathered through sets of interviews, log analysis or eye tracking. Interviews are typically conducted with users when they are able to engage in verbal conversations, and otherwise they are often conducted with people supporting neurodiverse users. Some interviews with neurodiverse users have been conducted as *contextual interviews*, where users can demonstrate how they engage with the technology as part of the interview. Log analysis or eye tracking have been used to establish the difficulties that neurodiverse users encounter with mainstream and commercially available systems, and to demonstrate the additional effort and time they have to invest to access information online.

The intention of this survey is in part to provide readers with a way forward in making their own research endeavours more inclusive of neurodiverse participants. As a result, the approaches addressed in this work will both investigate how existing approaches could include a broader diversity of users, as well as how specific approaches can be elaborated. In this context, this work will not expand on the often traditional distinction between qualitative and quantitative research, which are equally valid, but rather offer avenues to expand on both types of research approaches, which can otherwise equally perpetuate ableist principles and perspectives (Williams and Gilbert, 2019).

The core methodological concept which this survey is hoping to convey is participation. That is, allowing neurodiverse participants to take part in mainstream IIR research through inclusive and adapted research methods, as well as exploring opportunities for participatory design. The field of Human Computer Interaction already has rich perspectives on methods, approaches and philosophies that are effective to invite, support and ensure participation of neurodiverse users. Yet, these are seldom employed to imagine new approaches and create innovative IIR systems. This survey will introduce what we believe can be translated to IIR for more inclusive futures.

1.3 Overview

This monograph aims to present a variety of foundations for researchers to transform their approaches and make their research and that of new entrants to the field more inclusive. We believe that the pillars for this transformation include a better understanding of who are neurodiverse users, design approaches that can guide a rethinking of IIR systems or research methods, examples of IIR systems designed to address neurodiversity, practical tools/ideas to make IIR research more inclusive, and perspectives for future work towards inclusive/neurodiverse IIR research.

Section 2 intends to accompany the reader on a journey to understand how neurodiverse users are, or should be, positioned within IIR studies. We first develop some of the philosophies, models and terminology that are relevant to engaging with neurodiverse users, and particularly the shift from the medical to the social model (Section 2.1.1). We clarify how neurodiversity can be expected to interfere with inclusive and accessible interactions with IIR systems, and present the literature that investigates the experiences of neurodiverse users with existing IIR systems. Moreover, neurodiversity is presented as a natural variation in human cognition rather than a group which diverges from the majority population. Further, the value of including a broad spectrum of abilities in studies, and how they can contribute with more usable systems for everyone is discussed. Through the lens of the concept of interdependence, we finally develop the shift from considering individual users as sole participants in interactions with IIR systems to considering their interactions as part of a network of interdependent relationships.

Section 3 offers some insights into how the field of interaction design has already established fundamental principles for inclusive interactive systems, and frameworks to ensure that people of all abilities are involved in shaping the systems that they are entitled to use. The section opens with clarifications on how interactions are distinct from interfaces. It then offers foundations to rethink the approaches to conceptualise IIR systems through the lenses of Universal Design, Ability Based Design, and Competency Based design, and places these approaches in the broader field of participatory design.

Section 4 surveys the nascent applications of these design frameworks into some of the innovative and inclusive systems that have so far emerged from the field of information retrieval. After presenting the range of systems that have so far been explored, we compile the various design guidelines which have emerged from their evaluation with neurodiverse users. We also include in this compilation design guidelines that have emerged from evaluating non-inclusive systems.

Inclusive and neurodiverse IIR should not remain an isolated field of expertise, and we recognise that design approaches may not always be applicable to the ongoing studies or operational systems. Thus, Section 5 offers an overview of practical approaches to include neurodiverse users into a broader range of existing IIR methodologies and studies. The section starts with ways to design the user study inclusively in order to enable traditional approaches to suit the needs of neurodiverse users. We then look more specifically into how systems involved in the studies can be adapted to create the conditions for participation of neurodiverse people. We conclude more formally with the ethical considerations necessary to respectfully approach and involve neurodiverse study participants.

The concluding Section 6 presents some avenues for emerging issues in IIR to be considered inclusively. We propose that as models are becoming more and more aware of issues around fairness and bias, the opportunity to consider neurodiverse voices in this agenda is not to be missed. Neurodiverse users are often the most vulnerable to misinformation, and sometimes intentionally targeted by scams as a result. We also highlight how collaborative approaches can not only be part of solutions regarding misinformation, but more broadly considered from the perspective of ensuring autonomy in models of supported access to information. We consider how conversational systems, as they are becoming more and more multimodal, and embedded in embodied technologies such as social robots, present an opportunity to develop inclusively, and also to better meet the needs of neurodiverse users. Finally, we suggest a new category of intent for information seeking, one that recognises the communicative and social dimensions of information and information sharing.

References

- Arachchi, T. K., L. Sitbon, J. Zhang, R. Gamage, and P. Hewagama. (2021). “LIFT: An eLearning Introduction to Web Search for Young Adults with Intellectual Disability in Sri Lanka”. In: *Human-Computer Interaction – INTERACT 2021. Lecture Notes in Computer Science*. 245–265. DOI: [10.1007/978-3-030-85623-6_16](https://doi.org/10.1007/978-3-030-85623-6_16).
- Australian Human Rights Commission. (2014). “World wide web Access: Disability Discrimination Act advisory notes ver. 4.0”. URL: <http://humanrights.gov.au/world-wide-web-access-disability-discrimination-act-advisory-notes-ver-40-2010>.
- Avula, S., J. Arguello, R. Capra, J. Dodson, Y. Huang, and F. Radlinski. (2019). “Embedding Search into a Conversational Platform to Support Collaborative Search”. In: *Proceedings of the 2019 Conference on Human Information Interaction and Retrieval. CHIIR '19*. Association for Computing Machinery. 15–23. DOI: [10.1145/3295750.3298928](https://doi.org/10.1145/3295750.3298928). (Accessed on 02/13/2022).
- Azzopardi, L. (2014). “Modelling interaction with economic models of search”. In: *Proceedings of the 37th international ACM SIGIR conference on Research & development in information retrieval. SIGIR '14*. Association for Computing Machinery. 3–12. DOI: [10.1145/2600428.2609574](https://doi.org/10.1145/2600428.2609574). (Accessed on 02/16/2022).

- Balasuriya, S. S., L. Sitbon, A. A. Bayor, M. Hoogstrate, and M. Brereton. (2018). “Use of Voice Activated Interfaces by People with Intellectual Disability”. In: *Proceedings of the 30th Australian Conference on Computer-Human Interaction. OzCHI '18*. ACM. 102–112. DOI: [10.1145/3292147.3292161](https://doi.org/10.1145/3292147.3292161). (Accessed on 10/13/2019).
- Balasuriya, S. S., L. Sitbon, and M. Brereton. (2022). “A Support Worker Perspective on Use of New Technologies by People with Intellectual Disabilities”. *ACM Transactions on Accessible Computing*. Feb. DOI: [10.1145/3523058](https://doi.org/10.1145/3523058). (Accessed on 05/22/2022).
- Balasuriya, S. S., L. Sitbon, J. Zhang, and K. Anuar. (2021). “Summary and Prejudice: Online Reading Preferences of Users with Intellectual Disability”. In: *Proceedings of the 2021 Conference on Human Information Interaction and Retrieval. CHIIR '21*. Association for Computing Machinery. 285–289. DOI: [10.1145/3406522.3446039](https://doi.org/10.1145/3406522.3446039). (Accessed on 07/01/2021).
- Ballantyne, M., A. Jha, Anna Jacobsen, J. S. Hawker, and Y. N. El-Glaly. (2018). “Study of Accessibility Guidelines of Mobile Applications”. In: *Proceedings of the 17th International Conference on Mobile and Ubiquitous Multimedia*. ACM. 305–315. DOI: [10.1145/3282894.3282921](https://doi.org/10.1145/3282894.3282921). (Accessed on 02/21/2022).
- Barbu, A., D. Banda, and B. Katz. (2020). “Deep video-to-video transformations for accessibility with an application to photosensitivity”. *Pattern Recognition Letters. Learning and Recognition for Assistive Computer Vision* 137(Sept.): 99–107. DOI: [10.1016/j.patrec.2019.01.019](https://doi.org/10.1016/j.patrec.2019.01.019). (Accessed on 12/22/2021).
- Bayor, A., F. Bircanin, L. Sitbon, B. Ploderer, S. Koplick, and M. Brereton. (2018). “Characterizing Participation Across Social Media Sites Amongst Young Adults with Intellectual Disability”. In: *Proceedings of the 30th Australian Conference on Computer-Human Interaction. OzCHI '18*. ACM. 113–122. DOI: [10.1145/3292147.3292167](https://doi.org/10.1145/3292147.3292167). (Accessed on 10/13/2019).
- Bayor, A. A., M. Brereton, L. Sitbon, B. Ploderer, F. Bircanin, B. Favre, and S. Koplick. (2021). “Toward a Competency-based Approach to Co-designing Technologies with People with Intellectual Disability”. *ACM Transactions on Accessible Computing*. 14(2): 1–33. DOI: [10.1145/3450355](https://doi.org/10.1145/3450355). (Accessed on 08/07/2021).

- Bayor, A. A., L. Sitbon, B. Ploderer, F. Bircanin, and M. Brereton. (2019). "TechShops" Engaging Young Adults with Intellectual Disability in Exploratory Design Research". In: *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems. CHI EA '19*. ACM. CS31:1–CS31:8. DOI: [10.1145/3290607.3299056](https://doi.org/10.1145/3290607.3299056). (Accessed on 10/01/2019).
- Belkin, N., R. Oddy, and H. Brooks. (1982). "Ask for information retrieval: Part I. Background and theory". *Journal of Documentation*. 38(2): 61–71. DOI: [doi:10.1108/eb026722](https://doi.org/10.1108/eb026722).
- Berget, G. (2020). "Information Needs of the End Users Have Never Been Discussed": An Investigation of the User-Intermediary Interaction of People with Intellectual Impairments". In: *CHIIR '20: Conference on Human Information Interaction and Retrieval*. Ed. by H. O'Brien and L. Freund. New York: ACM. 93–102.
- Berget, G. and F. E. Sandnes. (2019). "Why textual search interfaces fail: A study of cognitive skills needed to conduct successful queries". *Information Research*. 24(1).
- Berget, G. (2016). *Search and find?: An accessibility study of dyslexia and information retrieval*. Oslo: University of Oslo.
- Berget, G. and S. Fagernes. (2018). "'I'm not stupid" - Attitudes towards adaptation among people with dyslexia". In: *Human-Computer Interaction. Theories, Methods, and Human Issues*. Springer International Publishing. 237–247.
- Berget, G. and S. Fagernes. (2021). "Reading experiences and reading efficiency among adults with dyslexia: An accessibility study". In: *Universal Access in Human-Computer Interaction. Access to Media, Learning and Assistive Environments*. Springer International Publishing. 221–240.
- Berget, G., J. Herstad, and F. E. Sandnes. (2016a). "Search, read and write: An inquiry into web accessibility for people with dyslexia". In: *Universal Design 2016: Learning from the past, designing for the future*. Amsterdam: iOS press. 450–460.

- Berget, G. and B. Kvikne. (2022). “Making research more inclusive: Is Universal Design of Research the answer?” In: *Transforming our World through Universal Design for Human Development - Proceedings of the Sixth International Conference on Universal Design (UD2022)*. iOS Press. 77–84.
- Berget, G. and A. MacFarlane. (2019). “Experimental Methods in IIR: The Tension Between Rigour and Ethics in Studies Involving Users with Dyslexia”. In: *Proceedings of the 2019 Conference on Human Information Interaction and Retrieval. CHIIR '19*. ACM. 93–101. DOI: [10.1145/3295750.3298939](https://doi.org/10.1145/3295750.3298939). (Accessed on 10/14/2019).
- Berget, G. and A. MacFarlane. (2020). “What is known about the impact of impairments on information seeking and searching?” *Journal of the Association for Information Science and Technology*. 71(5): 596–611. DOI: [10.1002/asi.24256](https://doi.org/10.1002/asi.24256).
- Berget, G., F. Mulvey, and F. E. Sandnes. (2016b). “Is visual content in textual search interfaces beneficial to dyslexic users?” *International Journal of Human-Computer Studies*. 92-93: 17–29. DOI: <https://doi.org/10.1016/j.ijhcs.2016.04.006>.
- Berget, G. and F. E. Sandnes. (2015). “Searching databases without query-building aids: Implications for dyslexic users”. *Information Research*. 20(4): paper 689.
- Berget, G. and F. E. Sandnes. (2016). “Do autocomplete functions reduce the impact of dyslexia on information-searching behavior? The case of Google”. *Journal of the Association for Information Science and Technology*. 67(10): 2320–2328. DOI: [doi:10.1002/asi.23572](https://doi.org/10.1002/asi.23572).
- Bergman, O. and Y. Benn. (2018). “A Neuro-Cognitive Explanation for the Prevalence of Folder Navigation and Web Browsing”. In: *Information Systems and Neuroscience. Lecture Notes in Information Systems and Organisation*. Springer International Publishing. 93–99. DOI: [10.1007/978-3-319-67431-5_11](https://doi.org/10.1007/978-3-319-67431-5_11).

- Bertelli, M. O., K. Munir, J. Harris, and L. Salvador-Carulla. (2016). ““Intellectual developmental disorders”: reflections on the international consensus document for redefining “mental retardation-intellectual disability” in ICD-11”. *Advances in Mental Health and Intellectual Disabilities*. 10(1): 36–58. DOI: <http://dx.doi.org/10.1108/AMHID-10-2015-0050>.
- Beukelman, D. R., K. Hux, A. Dietz, M. McKelvey, and K. Weissling. (2015). “Using Visual Scene Displays as Communication Support Options for People with Chronic, Severe Aphasia: A Summary of AAC Research and Future Research Directions”. *Augmentative and Alternative Communication*. 31(3): 234–245. DOI: [10.3109/07434618.2015.1052152](https://doi.org/10.3109/07434618.2015.1052152). (Accessed on 06/23/2021).
- Bilal, D. (2010). “The mediated information needs of children on the Autism Spectrum Disorder (ASD)”. In: *The 31st ACM SIGIR Workshop on Accessible Search Systems*. ACM. 42–49.
- Bircanin, F., M. Brereton, L. Sitbon, B. Ploderer, A. Azaabanye Bayor, and S. Koplick. (2021). “Including Adults with Severe Intellectual Disabilities in Co-Design through Active Support”. In: *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*. CHI '21. Association for Computing Machinery. 1–12. DOI: [10.1145/3411764.3445057](https://doi.org/10.1145/3411764.3445057). (Accessed on 05/22/2022).
- Bircanin, F., B. Ploderer, L. Sitbon, A. A. Bayor, and M. Brereton. (2019). “Challenges and Opportunities in Using Augmentative and Alternative Communication (AAC) Technologies: Design Considerations for Adults with Severe Disabilities”. In: *Proceedings of the 31st Australian Conference on Human-Computer-Interaction*. OZCHI'19. Association for Computing Machinery. 184–196. DOI: [10.1145/3369457.3369473](https://doi.org/10.1145/3369457.3369473). (Accessed on 05/22/2022).
- Bircanin, F., L. Sitbon, B. Favre, and M. Brereton. (2020a). “Designing an IIR Research Apparatus with Users with Severe Intellectual Disability”. In: *Proceedings of CHIIR 2020*. DOI: [10.1145/3343413.3378008](https://doi.org/10.1145/3343413.3378008).

- Bircanin, F., L. Sitbon, B. Ploderer, A. Azaabanye Bayor, M. Esteban, S. Koplick, and M. Brereton. (2020b). “The TalkingBox.: Revealing Strengths of Adults with Severe Cognitive Disabilities”. In: *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility. ASSETS '20*. Association for Computing Machinery. 1–8. DOI: [10.1145/3373625.3417025](https://doi.org/10.1145/3373625.3417025). (Accessed on 05/22/2022).
- Björnsdóttir, K., G. V. Stefánsdóttir, and Á. Stefánsdóttir. (2014). “‘It’s my life’: Autonomy and people with intellectual disabilities”. *Journal of Intellectual Disabilities*. 19(1): 5–21. DOI: [10.1177/1744629514564691](https://doi.org/10.1177/1744629514564691).
- Bødker, S. (2021). *Through the Interface: A Human Activity Approach to User Interface Design*. 1st ed. CRC Press. DOI: [10.1201/9781003063971](https://doi.org/10.1201/9781003063971). (Accessed on 05/10/2022).
- Bohman, P. R. and S. Anderson. (2005). “A conceptual framework for accessibility tools to benefit users with cognitive disabilities”. In: *Proceedings of the 2005 International Cross-Disciplinary Workshop on Web Accessibility (W4A)*. New York: ACM. 85–89.
- Borlund, P. (2000). “Experimental components for the evaluation of interactive information retrieval systems”. *Journal of Documentation*. 56(1): 71–90. DOI: [doi:10.1108/EUM0000000007110](https://doi.org/10.1108/EUM0000000007110).
- Brereton, M., P. Roe, R. Schroeter, and A. Lee Hong. (2014). “Beyond ethnography: engagement and reciprocity as foundations for design research out here”. In: *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems. CHI '14*. Association for Computing Machinery. 1183–1186. DOI: [10.1145/2556288.2557374](https://doi.org/10.1145/2556288.2557374). (Accessed on 05/22/2022).
- Brereton, M., L. Sitbon, M. H. L. Abdullah, M. Vanderberg, and S. Koplick. (2015). “Design after design to bridge between people living with cognitive or sensory impairments, their friends and proxies”. *CoDesign*. 11(1): 4–20. DOI: [10.1080/15710882.2015.1009471](https://doi.org/10.1080/15710882.2015.1009471). (Accessed on 10/13/2019).
- Buehler, E., W. Easley, A. Poole, and A. Hurst. (2016). “Accessibility barriers to online education for young adults with intellectual disabilities”. In: *Proceedings of the 13th International Web for All Conference. W4A '16*. Association for Computing Machinery. 1–10. DOI: [10.1145/2899475.2899481](https://doi.org/10.1145/2899475.2899481). (Accessed on 07/15/2021).

- Carlson, L. (2010). *The faces of intellectual disability: Philosophical reflections*. Bloomington: Indiana University Press.
- Cha, I., S.-I. Kim, H. Hong, H. Yoo, and Y.-k. Lim. (2021). “Exploring the Use of a Voice-based Conversational Agent to Empower Adolescents with Autism Spectrum Disorder”. In: *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems. CHI '21*. Association for Computing Machinery. 1–15. DOI: [10.1145/3411764.3445116](https://doi.org/10.1145/3411764.3445116). (Accessed on 02/14/2022).
- Chadwick, D., C. Wesson, and C. Fullwood. (2013). “Internet Access by People with Intellectual Disabilities: Inequalities and Opportunities”. *Future Internet*. 5(3): 376–397. DOI: [10.3390/fi5030376](https://doi.org/10.3390/fi5030376). (Accessed on 10/13/2019).
- Chadwick, D. D. and C. Fullwood. (2017). “An Online Life Like Any Other: Identity, Self-Determination, and Social Networking Among Adults with Intellectual Disabilities”. *Cyberpsychology, Behavior, and Social Networking*. 21(1): 56–64. DOI: [10.1089/cyber.2016.0689](https://doi.org/10.1089/cyber.2016.0689). (Accessed on 10/23/2019).
- Chadwick, D. D. (2022). ““You want to know that you’re safe”: Experiences of risk, restriction and resilience online among people with an intellectual disability”. *Cyberpsychology: Journal of Psychosocial Research on Cyberspace*. 16(3). DOI: [10.5817/CP2022-3-8](https://doi.org/10.5817/CP2022-3-8). (Accessed on 03/05/2023).
- Chalghoumi, H., V. Cobigo, C. Dignard, A. Gauthier-Beaupré, J. W. Jutai, Y. Lachapelle, J. Lake, R. Mcheimech, and M. Perrin. (2019). “Information Privacy for Technology Users With Intellectual and Developmental Disabilities: Why Does It Matter?” *Ethics & Behavior*. 29(3): 201–217. DOI: [10.1080/10508422.2017.1393340](https://doi.org/10.1080/10508422.2017.1393340). (Accessed on 03/06/2023).
- Chalmers, M. and A. Galani. (2004). “Seamful interweaving: heterogeneity in the theory and design of interactive systems”. In: *Proceedings of the 5th conference on Designing interactive systems: processes, practices, methods, and techniques. DIS '04*. Association for Computing Machinery. 243–252. DOI: [10.1145/1013115.1013149](https://doi.org/10.1145/1013115.1013149). (Accessed on 05/09/2022).

- Chan, R., D. Shum, T. Touloupoulou, and E. Chen. (2008). "Assessment of executive functions: Review of instruments and identification of critical issues". *Archives of Clinical Neuropsychology*. 23(2): 201–216. DOI: [10.1016/j.acn.2007.08.010](https://doi.org/10.1016/j.acn.2007.08.010). (Accessed on 08/03/2021).
- Chang, Y.-W., L. Sitbon, and L. Simpson. (2021). "Towards a Secured and Safe Online Social Media Design Framework for People with Intellectual Disability". In: *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility*. No. 91. Association for Computing Machinery. 1–4. URL: <https://doi.org/10.1145/3441852.3476540> (accessed on 02/20/2022).
- Channell, M. M., B. A. Phillips, S. J. Loveall, F. A. Conners, P. M. Bussanich, and L. G. Klinger. (2015). "Patterns of autism spectrum symptomatology in individuals with Down syndrome without comorbid autism spectrum disorder". *Journal of Neurodevelopmental Disorders*. 7(1): 5. DOI: [10.1186/1866-1955-7-5](https://doi.org/10.1186/1866-1955-7-5).
- Choi, D., U. Lee, and H. Hong. (2022). "“It’s not wrong, but I’m quite disappointed”: Toward an Inclusive Algorithmic Experience for Content Creators with Disabilities". In: *CHI Conference on Human Factors in Computing Systems*. ACM. 1–19. DOI: [10.1145/3491102.3517574](https://doi.org/10.1145/3491102.3517574). (Accessed on 05/10/2022).
- Cobigo, V., K. Czechowski, H. Chalghoumi, A. Gauthier-Beaupre, H. Assal, J. Jutai, K. Kobayashi, A. Grenier, and F. Bah. (2020). "Protecting the privacy of technology users who have cognitive disabilities: Identifying areas for improvement and targets for change". *Journal of Rehabilitation and Assistive Technologies Engineering*. 7(Jan.): 205566832095019. DOI: [10.1177/2055668320950195](https://doi.org/10.1177/2055668320950195). (Accessed on 03/06/2023).
- Cole, L., A. MacFarlane, and G. Buchanan. (2016). "Does dyslexia present barriers to information literacy in an online environment? A pilot study". *Library and Information Research*. 40(123): 24–46.
- Culpepper, J. S., F. Diaz, and M. D. Smucker. (2018). "Research Frontiers in Information Retrieval: Report from the Third Strategic Workshop on Information Retrieval in Lorne (SWIRL 2018)". *ACM SIGIR Forum*. 52(1): 34–90. DOI: [10.1145/3274784.3274788](https://doi.org/10.1145/3274784.3274788). (Accessed on 02/14/2022).

- “Definition of Intellectual Disability”. URL: <https://www.aaid.org/intellectual-disability/definition> (accessed on 08/03/2021).
- Delgado, P., V. Ávila, I. Fajardo, and L. Salmerón. (2019). “Training young adults with intellectual disability to read critically on the internet”. *Journal of applied research in intellectual disabilities: JARID*. 32(3): 666–677. DOI: [10.1111/jar.12562](https://doi.org/10.1111/jar.12562).
- Diamond, A. (2013). “Executive Functions”. *Annual Review of Psychology*. 64(1): 135–168. DOI: [10.1146/annurev-psych-113011-143750](https://doi.org/10.1146/annurev-psych-113011-143750). (Accessed on 08/03/2021).
- Dingler, T., B. Tag, and A. Vargo. (2022). “Technologies to Support Critical Thinking in an Age of Misinformation (Dagstuhl Seminar 22172)”. *Dagstuhl Reports*. 12(4): 72–95. DOI: [10.4230/DagRep.12.4.72](https://doi.org/10.4230/DagRep.12.4.72).
- Dixon, E. and A. Lazar. (2020). “The Role of Sensory Changes in Everyday Technology use by People with Mild to Moderate Dementia”. In: *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility*. ACM. 1–12. DOI: [10.1145/3373625.3417000](https://doi.org/10.1145/3373625.3417000). (Accessed on 02/21/2022).
- Dourish, P. (2001). “Where the Action Is: The Foundations of Embodied Interaction”. In: 256.
- Eraslan, S., V. Yaneva, Y. Yesilada, and S. Harper. (2019). “Web users with autism: eye tracking evidence for differences”. *Behaviour & Information Technology*. 38(7): 678–700. DOI: [10.1080/0144929X.2018.1551933](https://doi.org/10.1080/0144929X.2018.1551933). (Accessed on 02/10/2022).
- Fourney, A., M. Ringel Morris, A. Ali, and L. Vonessen. (2018). “Assessing the Readability of Web Search Results for Searchers with Dyslexia”. In: *The 41st International ACM SIGIR Conference on Research & Development in Information Retrieval. SIGIR '18*. ACM. 1069–1072. DOI: [10.1145/3209978.3210072](https://doi.org/10.1145/3209978.3210072). (Accessed on 10/14/2019).
- Frauenberger, C. (2019). “Entanglement HCI The Next Wave?” *ACM Transactions on Computer-Human Interaction*. 27(1): 2:1–2:27. DOI: [10.1145/3364998](https://doi.org/10.1145/3364998). (Accessed on 05/23/2022).

- Friedman, M. G. and D. N. Bryen. (2007). “Web accessibility design recommendations for people with cognitive disabilities”. *Technology and Disability*. 19(4): 205–212. DOI: [10.3233/TAD-2007-19406](https://doi.org/10.3233/TAD-2007-19406). (Accessed on 07/16/2021).
- Germanò, E., A. Gagliano, and P. Curatolo. (2010). “Comorbidity of ADHD and dyslexia”. *Developmental Neuropsychology*. 35(5): 475–493. DOI: [10.1080/87565641.2010.494748](https://doi.org/10.1080/87565641.2010.494748).
- Gibson, R. C., M. D. Dunlop, M.-M. Bouamrane, and R. Nayar. (2020). “Designing Clinical AAC Tablet Applications with Adults who have Mild Intellectual Disabilities”. In: *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. Association for Computing Machinery. 1–13. URL: <https://doi.org/10.1145/3313831.3376159> (accessed on 01/18/2022).
- Goodey, C. F. (2003). “On certainty, reflexivity and the ethics of genetic research into intellectual disability”. *Journal of Intellectual Disability Research*. 47(7): 548–554. DOI: <https://doi.org/10.1046/j.1365-2788.2003.00534.x>.
- Graf, C. (2009). “The Lawton Instrumental Activities of Daily Living (IADL) Scale”. *The gerontologist*. 9(3): 179–186.
- Greenbaum, J. and M. Kyng, eds. (1992). *Design at work: cooperative design of computer systems*. L. Erlbaum Associates Inc.
- Greuter, S., S. Balandin, and J. Watson. (2019). “Social Games Are Fun: Exploring Social Interactions on Smart Speaker Platforms for People with Disabilities”. In: *Extended Abstracts of the Annual Symposium on Computer-Human Interaction in Play Companion Extended Abstracts. CHI PLAY '19 Extended Abstracts*. Association for Computing Machinery. 429–435. DOI: [10.1145/3341215.3356308](https://doi.org/10.1145/3341215.3356308). (Accessed on 02/14/2022).
- Grue, J. (2011). “Discourse analysis and disability: Some topics and issues”. *Discourse & Society*. 22(5): 532–546. DOI: [10.1177/0957926511405572](https://doi.org/10.1177/0957926511405572).
- Han, S. D., P. A. Boyle, B. D. James, L. Yu, and D. A. Bennett. (2016). “Mild Cognitive Impairment and Susceptibility to Scams in Old Age”. *Journal of Alzheimer's Disease*. 49(3): 845–851. DOI: [10.3233/JAD-150442](https://doi.org/10.3233/JAD-150442). (Accessed on 02/20/2022).

- Hansen-Schirra, S. and C. Maaß. (2020). “Easy language, plain language, easy language plus: Perspectives on comprehensibility and stigmatisation”. In: *Intralingual translation into easy language - or how to reduce cognitive processing costs*. Ed. by S. Hansen-Schirra and C. Maaß. Berlin: Frank & Timme. 17–38.
- Hanson, V. L., A. Cavender, and S. Trewin. (2015). “Writing about accessibility”. *interactions*. 22(6): 62–65. DOI: [10.1145/2828432](https://doi.org/10.1145/2828432).
- Hanson-Baldauf, D. (2013). *Exploring the everyday life information needs, practices, and challenges of emerging adults with intellectual disabilities*. Chapel Hill: University of North Carolina.
- Harper, S. (2007). “Is there design-for-all?” *Universal Access in the Information Society*. 6(1): 111–113. DOI: [10.1007/s10209-007-0071-2](https://doi.org/10.1007/s10209-007-0071-2).
- Harrysson, B., A. Svensk, and G. I. Johansson. (2004). “How people with developmental disabilities navigate the Internet”. *British Journal of Special Education*. 31(3): 138–142. DOI: [doi:10.1111/j.0952-3383.2004.00344.x](https://doi.org/10.1111/j.0952-3383.2004.00344.x).
- Henry, S. L., S. Abou-Zahra, and J. Brewer. (2014). “The role of accessibility in a universal web”. In: *Proceedings of the 11th Web for All Conference. W4A '14*. Association for Computing Machinery. 1–4. DOI: [10.1145/2596695.2596719](https://doi.org/10.1145/2596695.2596719). (Accessed on 05/09/2022).
- Høien, T. and G. Tønnesen. (2008). *Ordkjedetesten [The Word Chain Test]*. Bryne: Logometrica.
- Hornof, A., H. Whitman, M. Sutherland, S. Gerendasy, and J. McGrenere. (2017). “Designing for the “Universe of One”: Personalized Interactive Media Systems for People with the Severe Cognitive Impairment Associated with Rett Syndrome”. In: *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems. CHI '17*. Association for Computing Machinery. 2137–2148. DOI: [10.1145/3025453.3025904](https://doi.org/10.1145/3025453.3025904). (Accessed on 11/25/2022).
- Hu, R. and J. H. Feng. (2015). “Investigating Information Search by People with Cognitive Disabilities”. *ACM Trans. Access. Comput.* 7(1): 1:1–1:30. DOI: [10.1145/2729981](https://doi.org/10.1145/2729981). (Accessed on 10/13/2019).

- Huenerfauth, M., L. Feng, and N. Elhadad. (2009). "Comparing evaluation techniques for text readability software for adults with intellectual disabilities". In: *Proceedings of the 11th international ACM SIGACCESS conference on Computers and accessibility*. Association for Computing Machinery. 3–10. DOI: [10.1145/1639642.1639646](https://doi.org/10.1145/1639642.1639646).
- Jones, C. T. (2021). "'Wounds of regret': Critical reflections on competence, 'professional intuition,' and informed consent in research with intellectually disabled people". *Disability Studies Quarterly*. 41(2). URL: <https://dsq-sds.org/article/view/6869/5937>.
- Keates, S. and P. J. Clarkson. (2002). "Countering design exclusion through inclusive design". *ACM SIGCAPH Computers and the Physically Handicapped*. (73-74): 69–76. DOI: [10.1145/960201.957218](https://doi.org/10.1145/960201.957218). (Accessed on 05/09/2022).
- Kern, J. K., D. A. Geier, P. G. King, L. K. Sykes, J. A. Mehta, and M. R. Geier. (2015). "Shared brain connectivity issues, symptoms, and comorbidities in autism spectrum disorder, attention deficit/hyperactivity disorder, and Tourette syndrome". *Brain Connectivity*. 5(6): 321–335. DOI: [10.1089/brain.2014.0324](https://doi.org/10.1089/brain.2014.0324).
- Keskinen, T., T. Heimonen, M. Turunen, J.-P. Rajaniemi, and S. Kauppinen. (2012). "SymbolChat: A flexible picture-based communication platform for users with intellectual disabilities". *Interacting with Computers*. 24(5): 374–386. DOI: [10.1016/j.intcom.2012.06.003](https://doi.org/10.1016/j.intcom.2012.06.003). (Accessed on 01/19/2022).
- Kirby, P. (2020). "Dyslexia debated, then and now: A historical perspective on the dyslexia debate". *Oxford Review of Education*. 46(4): 472–486. DOI: [10.1080/03054985.2020.1747418](https://doi.org/10.1080/03054985.2020.1747418).
- Kirkpatrick, A., J. O Connor, A. Campbell, and M. Cooper. (2018). "Web Content Accessibility Guidelines (WCAG) 2.1". URL: <https://www.w3.org/TR/WCAG21/> (accessed on 10/23/2019).
- Kuruppu Arachchi, T., L. Sitbon, and J. Zhang. (2017). "Enhancing Access to eLearning for People with Intellectual Disability: Integrating Usability with Learning". In: 13–32. DOI: [10.1007/978-3-319-67684-5_2](https://doi.org/10.1007/978-3-319-67684-5_2).

- Kvikne, B. and G. Berget. (2019). “In search of trustworthy information: a qualitative study of the search behavior of people with dyslexia in Norway”. *Universal Access in the Information Society*. DOI: [10.1007/s10209-019-00703-9](https://doi.org/10.1007/s10209-019-00703-9).
- Kvikne, B. and G. Berget. (2022). ““My words were completely gone”: A qualitative study of the information seeking behaviour of people with aphasia”. *Information Research*.
- Lavoie, M., S. Routhier, A. Légaré, and J. Macoir. (2016). “Treatment of verb anomia in aphasia: efficacy of self-administered therapy using a smart tablet”. *Neurocase*. 22(1): 109–118. DOI: [10.1080/13554794.2015.1051055](https://doi.org/10.1080/13554794.2015.1051055).
- Lazar, J. (2007). *Universal Usability: Designing Computer Interfaces for Diverse User Populations*. John Wiley & Sons, Inc.
- Lazar, J., J. H. Feng, and H. Hochheiser. (2017). *Research Methods in Human-Computer Interaction*. Cambridge: Elsevier.
- Lervåg, A. and C. Hulme. (2009). “Rapid automatized naming (RAN) taps a mechanism that places constraints on the development of early reading fluency”. *Psychological Science*. 20(8): 1040–1048. DOI: [10.1111/j.1467-9280.2009.02405.x](https://doi.org/10.1111/j.1467-9280.2009.02405.x).
- Lindley, J. and P. Coulton. (2016). “Pushing the Limits of Design Fiction: The Case For Fictional Research Papers”. In: *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems*. Association for Computing Machinery. 4032–4043. DOI: [10.1145/2858036.2858446](https://doi.org/10.1145/2858036.2858446).
- Llewellyn, A. and K. Hogan. (2000). “The use and abuse of models of disability”. *Disability & Society*. 15(1): 157–165. DOI: [10.1080/09687590025829](https://doi.org/10.1080/09687590025829).
- Lovdata. (2020). “Act relating to equality and a prohibition against discrimination (Equality and Anti-Discrimination Act)”. *Web Page*. URL: <https://lovdata.no/dokument/NLE/lov/2017-06-16-51>.
- MacFarlane, A., A. Albrair, C. R. Marshall, and G. Buchanan. (2012). “Phonological working memory impacts on information searching: An investigation of dyslexia”. In: *Proceedings of the 4th Information Interaction in Context Symposium*. New York: ACM. 27–34.

- MacFarlane, A., G. Buchanan, A. Al-Wabil, A. Andrienko, and N. Andrienko. (2017). “Visual analysis of dyslexia on search”. In: *Proceedings of the 2017 Conference on Conference Human Information Interaction and Retrieval*. New York: ACM. 285–288.
- MacFarlane, A., A. Al-Wabil, C. R. Marshall, A. Albrair, S. Jones, and P. Zaphiris. (2010). “The effect of dyslexia on information retrieval: A pilot study”. *Journal of Documentation*. 66(3): 307–326. DOI: [doi:10.1108/00220411011038421](https://doi.org/10.1108/00220411011038421).
- Markussen, T. and E. Knutz. (2013). “The poetics of design fiction”. In: *Proceedings of the 6th International Conference on Designing Pleasurable Products and Interfaces*. Association for Computing Machinery. 231–240. DOI: [10.1145/2513506.2513531](https://doi.org/10.1145/2513506.2513531).
- Martin, J. J. (2013). “Benefits and barriers to physical activity for individuals with disabilities: a social-relational model of disability perspective”. *Disability and Rehabilitation*. 35(24): 2030–2037. DOI: [10.3109/09638288.2013.802377](https://doi.org/10.3109/09638288.2013.802377).
- Martino, A. S. and A. F. Schormans. (2018). “When good intentions backfire: University research ethics review and the intimate lives of people labeled with intellectual disabilities”. *Forum Qualitative Sozialforschung / Forum: Qualitative Social Research*. 19(3). DOI: [10.17169/fqs-19.3.3090](https://doi.org/10.17169/fqs-19.3.3090).
- Masina, F., V. Orso, P. Pluchino, G. Dainese, S. Volpato, C. Nelini, D. Mapelli, A. Spagnolli, and L. Gamberini. (2020). “Investigating the Accessibility of Voice Assistants With Impaired Users: Mixed Methods Study”. *Journal of Medical Internet Research*. 22(9): e18431. DOI: [10.2196/18431](https://doi.org/10.2196/18431). (Accessed on 01/19/2022).
- McDonald, K. E. and C. A. Kidney. (2012). “What is right? Ethics in intellectual disabilities research”. *Journal of Policy and Practice in Intellectual Disabilities*. 9(1): 27–39. DOI: <https://doi.org/10.1111/j.1741-1130.2011.00319.x>.
- McDonald, N., A. Larsen, A. Battisti, G. Madjaroff, A. Massey, and H. Mentis. (2020). “Realizing choice: online safeguards for couples adapting to cognitive challenges”. In: *Proceedings of the Sixteenth USENIX Conference on Usable Privacy and Security*. No. 6. USENIX Association. 99–110. (Accessed on 02/20/2022).

- “MediaEval Benchmark”. URL: <https://multimediaeval.github.io/> (accessed on 02/18/2022).
- Mitchell, A., L. Sitbon, S. S. Balasuriya, S. Koplick, and C. Beaumont. (2021). “Social Robots in Learning Experiences of Adults with Intellectual Disability: An Exploratory Study”. In: *Human-Computer Interaction – INTERACT 2021. Lecture Notes in Computer Science*. Springer International Publishing. 266–285. DOI: [10.1007/978-3-030-85623-6_17](https://doi.org/10.1007/978-3-030-85623-6_17).
- Morris, M. R. (2013). “Collaborative search revisited”. In: *Proceedings of the 2013 conference on Computer supported cooperative work. CSCW '13*. Association for Computing Machinery. 1181–1192. DOI: [10.1145/2441776.2441910](https://doi.org/10.1145/2441776.2441910). (Accessed on 02/13/2022).
- Morris, M. R., A. Fourney, A. Ali, and L. Vonessen. (2018). “Understanding the Needs of Searchers with Dyslexia”. In: *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems. CHI '18*. ACM. 35:1–35:12. DOI: [10.1145/3173574.3173609](https://doi.org/10.1145/3173574.3173609). (Accessed on 10/14/2019).
- Mueller, S. T. and B. J. Piper. (2014). “The Psychology Experiment Building Language (PEBL) and PEBL Test Battery”. *Journal of Neuroscience Methods*. 222(Jan.): 250–259. DOI: [10.1016/j.jneumeth.2013.10.024](https://doi.org/10.1016/j.jneumeth.2013.10.024). (Accessed on 08/07/2021).
- Newell, A. F., P. Gregor, M. Morgan, G. Pullin, and C. Macaulay. (2011). “User-Sensitive Inclusive Design”. *Universal Access in the Information Society*. 10(3): 235–243. URL: <https://doi.org/10.1007/s10209-010-0203-y>.
- Newell, A. F. and P. Gregor. (2000). “User sensitive inclusive design: in search of a new paradigm”. In: *Proceedings on the 2000 conference on Universal Usability. CUU '00*. Association for Computing Machinery. 39–44. DOI: [10.1145/355460.355470](https://doi.org/10.1145/355460.355470). (Accessed on 05/09/2022).
- Newman, J. (2017). *To Siri, With Love: A mother, her autistic son, and the kindness of a machine*. Hachette UK.
- Nour, R. (2015). “Web searching by individuals with cognitive disabilities”. *ACM SIGACCESS Accessibility and Computing*. (111): 19–25. DOI: [10.1145/2809904.2809909](https://doi.org/10.1145/2809904.2809909). (Accessed on 11/30/2021).

- O'Brien, B. A., J. S. Mansfield, and G. E. Legge. (2005). "The effect of print size on reading speed in dyslexia". *Journal of Research in Reading*. 28(3): 332–349. DOI: [doi:10.1111/j.1467-9817.2005.00273.x](https://doi.org/10.1111/j.1467-9817.2005.00273.x).
- Oliver, M. (2013). "The social model of disability: Thirty years on". *Disability & Society*. 28(7): 1024–1026. DOI: [10.1080/09687599.2013.818773](https://doi.org/10.1080/09687599.2013.818773).
- Perez, T. M., M. Poncellet, E. Salmon, and S. Majerus. (2015). "Functional alterations in order short-term memory networks in adults with dyslexia". *Developmental Neuropsychology*. 40(7-8): 407–429. DOI: [10.1080/87565641.2016.1153098](https://doi.org/10.1080/87565641.2016.1153098).
- Piper, A. M., R. Cornejo, L. Hurwitz, and C. Unumb. (2016). "Technological Caregiving: Supporting Online Activity for Adults with Cognitive Impairments". In: *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems*. ACM. 5311–5323. DOI: [10.1145/2858036.2858260](https://doi.org/10.1145/2858036.2858260). (Accessed on 02/21/2022).
- Rajapakse, R., M. Brereton, and L. Sitbon. (2019). "A respectful design approach to facilitate codesign with people with cognitive or sensory impairments and makers". *CoDesign*. May: 1–29. DOI: [10.1080/15710882.2019.1612442](https://doi.org/10.1080/15710882.2019.1612442).
- Rello, L. and R. Baeza-Yates. (2013). "Good fonts for dyslexia". In: *Proceedings of the 15th International ACM SIGACCESS Conference on Computers and Accessibility*. 2513447: ACM. 1–8. DOI: [10.1145/2513383.2513447](https://doi.org/10.1145/2513383.2513447).
- Rello, L. and R. Baeza-Yates. (2017). "How to present more readable text for people with dyslexia". *Universal Access in the Information Society*. 16(1): 29–49. DOI: [10.1007/s10209-015-0438-8](https://doi.org/10.1007/s10209-015-0438-8). (Accessed on 11/16/2021).
- Rello, L., M. Ballesteros, and J. P. Bigham. (2015). "A Spellchecker for Dyslexia". In: *Proceedings of the 17th International ACM SIGACCESS Conference on Computers & Accessibility*. ASSETS '15. Association for Computing Machinery. 39–47. DOI: [10.1145/2700648.2809850](https://doi.org/10.1145/2700648.2809850). (Accessed on 11/15/2021).

- Rello, L., M. Pielot, M.-C. Marcos, and R. Carlini. (2013). “Size matters (spacing not): 18 points for a dyslexic-friendly Wikipedia”. In: *Proceedings of the 10th International Cross-Disciplinary Conference on Web Accessibility*. 2461125: ACM. 1–4. DOI: [10.1145/2461121.2461125](https://doi.org/10.1145/2461121.2461125).
- Richlan, F. (2020). “The functional neuroanatomy of developmental dyslexia across languages and writing systems”. *Frontiers in Psychology*. 11(155). DOI: [10.3389/fpsyg.2020.00155](https://doi.org/10.3389/fpsyg.2020.00155).
- Robertson, N. L., F. Bircanin, and L. Sitbon. (2021). “Designing a Pictorial Communication Web Application With People With Intellectual Disability”. In: *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility*. No. 58. Association for Computing Machinery. 1–4. URL: <https://doi.org/10.1145/3441852.3476527> (accessed on 03/07/2022).
- Rocha, T., D. Carvalho, M. Bessa, S. Reis, and L. Magalhães. (2017a). “Usability evaluation of navigation tasks by people with intellectual disabilities: a Google and SAPO comparative study regarding different interaction modalities”. *Universal Access in the Information Society*. 16(3): 581–592. DOI: [10.1007/s10209-016-0489-5](https://doi.org/10.1007/s10209-016-0489-5). (Accessed on 07/02/2021).
- Rocha, T., J. Martins, F. Branco, and R. Gonçalves. (2017b). “Evaluating Youtube Platform Usability by People with Intellectual Disabilities (A User Experience Case Study Performed in a Six-Month Period)”. *Journal of Information Systems Engineering & Management*. 2(1). DOI: [10.20897/jisem.201705](https://doi.org/10.20897/jisem.201705). (Accessed on 11/30/2021).
- Rocha, T., H. Paredes, J. Barroso, and M. Bessa. (2016). “SAMi: An Accessible Web Application Solution for Video Search for People with Intellectual Disabilities”. In: *Computers Helping People with Special Needs. Lecture Notes in Computer Science*. Springer International Publishing. 310–316.
- Rogers, Y. and G. Marsden. (2013). “Does he take sugar? moving beyond the rhetoric of compassion”. *Interactions*. 20(4): 48–57. DOI: [10.1145/2486227.2486238](https://doi.org/10.1145/2486227.2486238). (Accessed on 05/22/2022).

- Roomkham, S., S. Terris, and L. Sitbon. (2022). “Multi-modal Conversational Search for People with Intellectual Disability: An Exploratory Study”. In: *CHI Conference on Human Factors in Computing Systems Extended Abstracts. CHI EA '22*. Association for Computing Machinery. 1–6. DOI: [10.1145/3491101.3519821](https://doi.org/10.1145/3491101.3519821). (Accessed on 05/09/2022).
- Rose, D. H. and N. Strangman. (2007). “Universal Design for Learning: Meeting the challenge of individual learning differences through a neurocognitive perspective”. *Universal Access in the Information Society*. 5(4): 381–391. DOI: [10.1007/s10209-006-0062-8](https://doi.org/10.1007/s10209-006-0062-8).
- Ruthven, I. (2008). “Interactive information retrieval”. *Annual Review of Information Science and Technology*. 42(1): 43–91. DOI: <https://doi.org/10.1002/aris.2008.1440420109>.
- Salmerón, L., I. Fajardo, and M. Gómez-Puerta. (2019). “Selection and evaluation of Internet information by adults with intellectual disabilities”. *European Journal of Special Needs Education*. 34(3): 272–284. DOI: [10.1080/08856257.2018.1468634](https://doi.org/10.1080/08856257.2018.1468634).
- Saplacan, D. (2020). “Situated ability: A case from higher education on digital learning environments”. In: *Universal Access in Human-Computer Interaction. Applications and Practice*. Springer International Publishing. 256–274.
- Schneps, M. H., J. M. Thomson, G. Sonnert, M. Pomplun, C. Chen, and A. Heffner-Wong. (2013). “Shorter lines facilitate reading in those who struggle”. *PLOS ONE*. 8(8): e71161. DOI: [10.1371/journal.pone.0071161](https://doi.org/10.1371/journal.pone.0071161).
- Seeman, L. and M. Cooper. (2021). “Cognitive Accessibility User Research”. URL: <https://w3c.github.io/coga/user-research/>.
- Seeman-Horwitz, L., R. Bradley Montgomery, S. Lee, and R. Ran. (2021). “Making Content Usable for People with Cognitive and Learning Disabilities”. URL: <https://www.w3.org/TR/coga-usable/>.
- Shakespeare, T. (2004). “Social models of disability and other life strategies”. *Scandinavian Journal of Disability Research*. 6(1): 8–21. DOI: [10.1080/15017410409512636](https://doi.org/10.1080/15017410409512636).
- Shakespeare, T. (2013). “The social model of disability”. In: *The Disability Studies Reader*. Ed. by L. J. Davis. New York: Routledge. 214–221.

- Shakespeare, T. (2018). *Disability: The basics*. Abingdon: Routledge.
- Shneiderman, B. (2000). “Universal usability”. *Communications of the ACM*. 43(5): 84–91. DOI: [10.1145/332833.332843](https://doi.org/10.1145/332833.332843). (Accessed on 05/09/2022).
- Sitbon, L., A. Bayor, F. Bircanin, S. Koplick, and M. Brereton. (2018a). “An exploration of how people with intellectual disability engage with online information retrieval”. *Conference on Human Factors in Computing Systems - Proceedings*. 2018-April.
- Sitbon, L. and P. Bellot. (2008a). “How to cope with questions typed by dyslexic users”. *Proceedings of SIGIR 2008 Workshop on Analytics for Noisy Unstructured Text Data, AND’08*: 1–8.
- Sitbon, L., P. Bellot, and P. Blache. (2007). “Phonetic based sentence level rewriting of questions typed by dyslexic spellers in an information retrieval context”. *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH*. 2: 1429–1432.
- Sitbon, L., P. Bellot, and P. Blache. (2008). “Evaluating robustness of a QA system through a corpus of real-life questions”. *Proceedings of the 6th International Conference on Language Resources and Evaluation, LREC 2008*: 966–970.
- Sitbon, L. (2018). “Engaging IT Students in Co-Design with People with Intellectual Disability”. In: *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems*. ACM. 1–6. DOI: [10.1145/3170427.3188620](https://doi.org/10.1145/3170427.3188620). (Accessed on 11/09/2021).
- Sitbon, L. and P. Bellot. (2008b). “A readability measure for an information retrieval process adapted to dyslexics”. In: *Second international workshop on Adaptive Information Retrieval (AIR 2008 in conjunction with IIX 2008)*. 52–57.
- Sitbon, L., R. Brown, and L. Fell. (2019). “Turning Heads: Designing Engaging Immersive Video Experiences to Support People with Intellectual Disability when Learning Everyday Living Skills”. In: *The 21st International ACM SIGACCESS Conference on Computers and Accessibility*. ACM. 171–182. DOI: [10.1145/3308561.3353787](https://doi.org/10.1145/3308561.3353787). (Accessed on 11/09/2021).

- Sitbon, L., B. Favre, M. Brereton, S. Koplick, and L. Fell. (2020a). “Engaging the Abilities of Participants with Intellectual Disability in IIR Research”. In: *Proceedings of CHIIR 2020*. DOI: [10.1145/3343413.3377972](https://doi.org/10.1145/3343413.3377972).
- Sitbon, L., B. Favre, J. Zhang, A. A. Bayor, S. Koplick, F. Bircanin, and M. Brereton. (2020b). “A Framework for Information Accessibility in Large Video Repositories”. In: *Proceedings of CHIIR 2020*. DOI: [10.1145/3343413.3378003](https://doi.org/10.1145/3343413.3378003).
- Sitbon, L., L. Fell, D. Poxon, J. Zhang, and S. Geva. (2014). “Towards Universal Search Design”. In: *Proceedings of the 2014 Australasian Document Computing Symposium. ADCS '14*. ACM. 109:109–109:112. DOI: [10.1145/2682862.2682882](https://doi.org/10.1145/2682862.2682882). (Accessed on 10/01/2019).
- Sitbon, L., M. Hoogstrate, J. Yule, S. Koplick, F. Bircanin, and M. Brereton. (2018b). “A non-clinical approach to describing participants with intellectual disability”. In: *Proceedings of the 30th Australian Conference on Computer-Human Interaction*. ACM. 128–132.
- Smith, L. J. (2008). “How ethical is ethical research? Recruiting marginalized, vulnerable groups into health services research”. *Journal of Advanced Nursing*. 62(2): 248–257. DOI: <https://doi.org/10.1111/j.1365-2648.2007.04567.x>.
- Soro, A., M. Brereton, L. Sitbon, A. H. Ambe, J. L. Taylor, and C. Wilson. (2019). “Beyond Independence: Enabling Richer Participation through Relational Technologies”. In: *Proceedings of the 31st Australian Conference on Human-Computer-Interaction*. ACM. 149–160. DOI: [10.1145/3369457.3369470](https://doi.org/10.1145/3369457.3369470). (Accessed on 08/03/2021).
- Soubaras, H. (2020). “Voice recognition based system to adapt automatically the readability parameters of a user interface”. In: *Intelligent Systems and Applications*. Springer International Publishing. 166–178.
- South, L., D. Saffo, and M. A. Borkin. (2021). “Detecting and Defending Against Seizure-Inducing GIFs in Social Media”. In: *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*. No. 273. Association for Computing Machinery. 1–17. URL: <https://doi.org/10.1145/3411764.3445510> (accessed on 12/21/2021).

- Story, M. F., J. L. Mueller, and R. L. Mace. (1998). *The universal design file: Designing for people of all ages and abilities*. Raleigh: Center for Universal Design.
- Suchman, L. (2002a). “Located accountabilities in technology production”. 14: 16.
- Suchman, L. A. (2002b). “Practice-Based Design of Information Systems: Notes from the Hyperdeveloped World”. *The Information Society*. 18(2): 139–144. DOI: [10.1080/01972240290075066](https://doi.org/10.1080/01972240290075066). (Accessed on 05/10/2022).
- Sundeepa Balasuriya, S., L. Sitbon, S. Koplick, and Y. Chang. (2021). “The effectiveness of gamified interactive programs relating to online safety for people with intellectual disability”. In: *33rd Australian Conference on Human-Computer Interaction*. ACM. 176–181. DOI: [10.1145/3520495.3520524](https://doi.org/10.1145/3520495.3520524). (Accessed on 03/05/2023).
- Tee, S. R. and J. A. Lathlean. (2004). “The ethics of conducting a co-operative inquiry with vulnerable people”. *Journal of Advanced Nursing*. 47(5): 536–543. DOI: <https://doi.org/10.1111/j.1365-2648.2004.03130.x>.
- Thornley, C. V., A. C. Johnson, A. F. Smeaton, and H. Lee. (2011). “The scholarly impact of TRECVID (2003-2009)”. *Journal of the American Society for Information Science and Technology*. 62(4): 613–627. DOI: [10.1002/asi.21494](https://doi.org/10.1002/asi.21494). (Accessed on 02/18/2022).
- Toboso, M. (2011). “Rethinking disability in Amartya Sen’s approach: ICT and equality of opportunity”. *Ethics and Information Technology*. 13: 107–118.
- Trippas, J. R., D. Spina, L. Cavedon, H. Joho, and M. Sanderson. (2018). “Informing the Design of Spoken Conversational Search: Perspective Paper”. In: *Proceedings of the 2018 Conference on Human Information Interaction & Retrieval - CHIIR '18*. ACM Press. 32–41. DOI: [10.1145/3176349.3176387](https://doi.org/10.1145/3176349.3176387). (Accessed on 02/14/2022).

- Li-Tsang, C., S. Yeung, C. Chan, and C. Hui-Chan. (2005). “Factors affecting people with intellectual disabilities in learning to use computer technology”. *International Journal of Rehabilitation Research*. 28(2): 127–133. URL: https://journals.lww.com/intjrehabilres/Fulltext/2005/06000/Factors_affecting_people_with_intellectual.5.aspx?casa_token=bXqVrqjGwOwAAAAA:vWmnhr3uvCqtWIVzTtHOd0_9CSF9Jp6yDiGBhwzi74kVQuH2sonWDr3jklX1729S7Db11j2NQqNTsdvErFY5htuFPbQ (accessed on 07/02/2021).
- UK Government. (2010). “Equality Act 2010”. *Web Page*. URL: <http://www.legislation.gov.uk/ukpga/2010/15/contents..>
- UN. (2006). “Convention on the rights of persons with disabilities”. *Web Page*. URL: <https://www.un.org/disabilities/documents/convention/convoptprot-e.pdf>.
- Vanderheiden, G. (2000). “Fundamental principles and priority setting for universal usability”. In: *Proceedings on the 2000 conference on Universal Usability. CUU '00*. Association for Computing Machinery. 32–37. DOI: [10.1145/355460.355469](https://doi.org/10.1145/355460.355469). (Accessed on 05/09/2022).
- Vase, S. and G. Berget. (2023). “An Exploration of Automatic Speech Recognition within a Nordic Context”. In: *Proceedings of the 25th International Conference on Human-Computer Interaction (HCII)*.
- Vygotsky, L. S. (1962). *Thought and Language*. Trans. by E. Hanfmann and G. Vakar. MIT Press.
- Wagner, R. K., F. A. Zirps, A. A. Edwards, S. G. Wood, R. E. Joyner, B. J. Becker, G. Liu, and B. Beal. (2020). “The Prevalence of Dyslexia: A New Approach to its Estimation”. *Journal of learning disabilities*. 53(5): 354–365. DOI: [10.1177/0022219420920377](https://doi.org/10.1177/0022219420920377). (Accessed on 12/09/2022).
- Warmington, M., S. E. Stothard, and M. J. Snowling. (2013). “Assessing dyslexia in higher education: The York adult assessment battery-revised”. *Journal of Research in Special Educational Needs*. 13(1): 48–56. DOI: [doi:10.1111/j.1471-3802.2012.01264.x](https://doi.org/10.1111/j.1471-3802.2012.01264.x).
- Wessel, D., A.-K. Kennecke, and M. Heine. (2021). “WCAG and dyslexia: Improving the search function of websites for users with dyslexia (without making it worse for everyone else)”. In: *Mensch und Computer 2021*. Association for Computing Machinery. 168–179. DOI: [10.1145/3473856.3473867](https://doi.org/10.1145/3473856.3473867).

- White, J., J. O'Connor, S. Hollier, and J. Sajka. (2021). "Natural Language Interface Accessibility User Requirements". URL: <https://www.w3.org/TR/naur/>.
- WHO. (2017). "ICF Browser". *Web Page*. URL: <http://apps.who.int/classifications/icfbrowser/>.
- Williams, A. S. and S. M. Moore. (2011). "Universal design of research: Inclusion of persons with disabilities in mainstream biomedical studies". *Science translational medicine*. 3(82): 82cm12–82cm12. DOI: [10.1126/scitranslmed.3002133](https://doi.org/10.1126/scitranslmed.3002133).
- Williams, P. and C. Hennig. (2015). "Effect of web page menu orientation on retrieving information by people with learning disabilities". *Journal of the Association for Information Science and Technology*. 66(4): 674–683. DOI: [doi:10.1002/asi.23214](https://doi.org/10.1002/asi.23214).
- Williams, P. (2020a). "'It all sounds very interesting, but we're just too busy!': Exploring why 'gatekeepers' decline access to potential research participants with learning disabilities". *European Journal of Special Needs Education*. 35(1): 1–14. DOI: [10.1080/08856257.2019.1687563](https://doi.org/10.1080/08856257.2019.1687563).
- Williams, P. (2020b). *Learning Disabilities and e-Information: Navigating the Electronic Hypermaze*. Emerald Publishing Limited. DOI: [10.1108/9781789731514](https://doi.org/10.1108/9781789731514). (Accessed on 02/11/2022).
- Williams, P. (2021). "Ethical considerations and dilemmas when undertaking 'inclusive' research with vulnerable people". *International Journal of Pedagogical Advances in Technology-Mediated Education*. 2(2): 18–25. URL: <http://patme-journal.iatels.com/index.php/patme/article/view/ethical-considerations-and-dilemmas> (accessed on 02/13/2023).
- Williams, R. M. and J. E. Gilbert. (2019). "Nothing About Us Without Us" Transforming Participatory Research and Ethics in Human Systems Engineering". In: *Advancing Diversity, Inclusion, and Social Justice Through Human Systems Engineering*. CRC Press. DOI: [10.1201/9780429425905-9](https://doi.org/10.1201/9780429425905-9). (Accessed on 12/09/2022).

- Wilson, C., M. Brereton, B. Ploderer, and L. Sitbon. (2019). “Co-Design Beyond Words: ‘Moments of Interaction’ with Minimally-Verbal Children on the Autism Spectrum”. In: *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems. CHI '19*. ACM. 21:1–21:15. DOI: [10.1145/3290605.3300251](https://doi.org/10.1145/3290605.3300251). (Accessed on 10/01/2019).
- Wilson, C., M. Brereton, B. Ploderer, L. Sitbon, and B. Saggars. (2017). “Digital Strategies for Supporting Strengths- and Interests-based Learning with Children with Autism”. In: *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility. ASSETS '17*. Association for Computing Machinery. 52–61. DOI: [10.1145/3132525.3132553](https://doi.org/10.1145/3132525.3132553). (Accessed on 05/22/2022).
- Wilson, C., L. Sitbon, B. Ploderer, J. Opie, and M. Brereton. (2020). “Self-Expression by Design: Co-Designing the ExpressiBall with Minimally-Verbal Children on the Autism Spectrum”. In: *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. Association for Computing Machinery. 1–13. URL: <https://doi.org/10.1145/3313831.3376171> (accessed on 01/28/2022).
- Wobbrock, J. O., K. Z. Gajos, S. K. Kane, and G. C. Vanderheiden. (2018). “Ability-based Design”. *Commun. ACM*. 61(6): 62–71. DOI: [10.1145/3148051](https://doi.org/10.1145/3148051). (Accessed on 10/01/2019).
- Ylirisku, S., S. Lindley, G. Jacucci, R. Banks, C. Stewart, A. Sellen, R. Harper, and T. Regan. (2013). “Designing web-connected physical artefacts for the ‘aesthetic’ of the home”. In: *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*. ACM. 909–918. DOI: [10.1145/2470654.2466117](https://doi.org/10.1145/2470654.2466117). (Accessed on 12/21/2021).
- “Zac Browser – Zone for the Autism Community”. URL: <https://zacbrowser.app/> (accessed on 02/11/2022).
- Zhang, J., P. Purgathofer, M. Brereton, G. Fitzpatrick, and F. Güldenpfennig. (2016). “Handle the Way: Enhancing Web Accessibility for People with Disability”. In: *Proceedings of the 2016 ACM Conference Companion Publication on Designing Interactive Systems*. ACM. 117–120. DOI: [10.1145/2908805.2909403](https://doi.org/10.1145/2908805.2909403). (Accessed on 07/02/2021).

- Zorzi, M., C. Barbiero, A. Facoetti, I. Lonciari, M. Carrozzi, M. Montico, L. Bravar, F. George, C. Pech-Georgel, and J. C. Ziegler. (2012). “Extra-large letter spacing improves reading in dyslexia”. *Proceedings of the National Academy of Sciences*. 109(28): 11455–11459. DOI: [10.1073/pnas.1205566109](https://doi.org/10.1073/pnas.1205566109).