

Anastasia Kuzminykh

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Education

- Jan. 2016 - present **Ph.D, Computer Science**
[Cheriton School of Computer Science, University of Waterloo, Canada](#). Supervised by [Dr. E. Lank](#)
Thesis topic: *Contextual Factors Affecting Information Sharing Patterns in Mediated Communication.*
- Jan. 2014- Jan. 2016 **Master of Mathematics (promoted to Ph.D)**
[Cheriton School of Computer Science, University of Waterloo, Canada](#). Supervised by [Dr. S. Scott](#) and [Dr. E. Lank](#)
- 2007-2012 **Specialist Diploma with Honours (equivalent to Master of Science)**
[Lomonosov Moscow State University, Moscow, Russia](#). [Department of Neuro and Pathopsychology](#).
Supervised by [Dr. S. Enikolopov](#). **Thesis topic:** *Specificities in perception of aggressive stimuli among people with disorders of depressive spectrum.*

Research Experience

Computer Science/Human-Computer Interaction

- Jan. 2020 - June 2020 **A Cultural Model of Perceived Digital Ownership**
[Ben-Gurion University of the Negev, Department of Industrial Engineering & Management, Israel](#)

A collaborative project with [Dr. Jessica Cauchard](#) exploring the relationships between perceptions of ownership over physical artifacts and the information associated with these artifacts. The project aims at understanding cultural specifics of digital ownership through the comparison of several distinct cultural contexts.
- Jan. 2018 - Ongoing **Effects of Anthropomorphization of Conversational Agents in Home Settings**
[Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada](#)

Exploring naive perceptions of conversational agents in home settings, what anthropomorphized personal traits are associated with the assistants, and how it affects users' information sharing attitudes.
- Apr. 2018 - Ongoing **Sharing Information Online: Parents of Young Children**
[Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada](#)

Understanding leading motivations and reasoning for parents' information sharing strategies and dynamics in building online identity for parents and their children.
- Jan. 2017 - Aug., 2019 **Parental Mediation and Monitoring of Children's Activity**
[Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada](#)

Exploring the structure of parents' child-related information needs, motivations and strategies for utilizing the information, and the potential role that technology can play in this process.
- June 2018 - Nov. 2018 **Functional-Structural Model of Attention in Video Meetings**
[Microsoft Research Cambridge, HXD group, Cambridge, UK](#)

Informed by sense-making and selectiveness of attention in hybrid work meetings, we created a classification of observable attention accessible for teleconferencing feature support.
- Sept. 2016 - Dec. 2016 **Targeting (Fitts' law) Performance in Virtual Reality**
[Inria Research Center, Lille, France](#). Visiting researcher with the [MJOLNIR](#) team.

Exploring effects of latency on head movement targeting performance using mobile devices.
- June 2014- June 2016 **Mental Model of Co-Presence in Remote and Local Collaboration**
[HCI group, University of Waterloo, Waterloo, Canada](#)

Identifying the potential of paraverbal speech patterns as an effective measurement of sense of co-presence.

June 2014-
Apr. 2016



Online Reputation: Search Results in Context

[Cheriton School of Computer Science](#), [University of Waterloo](#), *Waterloo, Canada*

By exploring how selectiveness is realized when vetting, managing, and interpreting person related content in online search, we show that specific design elements may alleviate the effect of negative online content.

Aug. 2014 -
Sept. 2015



The Use of Personal Devices with a Shared Digital Tabletop in Groups

[University of Waterloo](#) & [Queen's University](#), *Canada*

Exploring effects of device-environmental factors on complex strategic task performance.

Jan. 2014 -
June 2014



Understanding the Role of Shared Workspace in Remote Collaboration

[HCI group](#), [University of Waterloo](#), *Waterloo, Canada*

Explorative study on the specifics of distributed team creative task performance and tools for the creative discussion. Understand how changing communication channels affects collaborative creative task performance.

Aug. 2013 -
Oct. 2013



Distant Pointing on Large Displays

[Cheriton School of Computer Science](#), [University of Waterloo](#), *Waterloo, Canada*

Invited researcher. Conducting studies and data analysis on novel techniques for distant pointing on large wall-type 2D and 3D displays.

Psychology Studies

May 2013 -
Sept. 2013



Specifics of Emotional Face Recognition Processes

[Department of Psychology](#), [University of Waterloo](#), *Waterloo, Canada*

Volunteering position. Conducting face recognition experiments using EEG, creating a large set of stimulus images, running pilot studies.

Sept. 2011-
June 2012



Perception of Aggressiveness Among People with Disorders of Depressive Spectrum

[Department of Psychology](#), [Lomonosov Moscow State University](#), *Moscow, Russia*

Supervised by [Dr. S. Enikolopov](#). Project towards master thesis work. Examining perception in text, audio and video modalities. See publications.

2008 - 2010



Prevailing Perception of Masculine and Feminine Aggression and Aggressiveness

[Department of Psychology](#), [Lomonosov Moscow State University](#), *Moscow, Russia*

Supervised by [Dr. S. Enikolopov](#). Examining beliefs of gender specific aspects of aggression.

2005- 2006



Specifics of psychological development of preschoolers in urban and rural areas

Supervised by [Dr. A. Obukhov](#), [Lyceum #1553](#), *Moscow, Russia*. The winner of the [Vernadsky National Contest of Student Research Projects](#) and [The Russian Federation Presidential Award supporting talented youth](#).

Wet Lab Studies

Nov. 2012-
Mar. 2013

Role of maternal nutrition in offspring brain development

[School of Public Health and Health Systems](#), [University of Waterloo](#), *Waterloo, ON, Canada*

Volunteer in the research group of [Dr. John G. Mielke](#). Assisting in performing biochemical experiments.

Sept. 2006-
May 2007

Investigating the genetic components linked to increased frequency of bronchial asthma among patients with cystic fibrosis

Supervised by [Dr. T. Tyazhelova](#); [Research centre of Medical Genetics](#), *Moscow, Russia*

Ethnographic Fieldwork

Spring 2020

[Perceived Digital and Physical Ownership](#), Namibia and Israel, Design ethnographic research

Sum. 2018

[Understanding work practices of visually impaired employees](#), UK, Design research

Sum. 2009

[Mezen River Villages](#), southern coast of the White Sea, Ethnographic research.

Sum. 2005

[The East Coast of Lake Baikal](#), Cultural research.

Sum. 2004

[Varzuga village](#), Kola Peninsula, the White Sea, Folklore research.

Sum. 2003

[Altai Mountains](#), village of [Telengit People](#), Cultural research.

Teaching and Work Experience

May 2017 -
Aug. 2019



Lecturer. [Cheriton School of Computer Science](#), [University of Waterloo](#), *Waterloo, Canada*
Designing and repeatedly teaching an upper-year course on **user-centered design process** and design research methods. ([Spring 2017](#), [Winter 2018](#), [Spring 2019](#)). Supervising in total 62 upper-year undergraduate course research projects. [Video presentation](#) of the course.

June 2018 -
Aug. 2018



Research Intern, HCI. [Microsoft Research Cambridge](#), *Cambridge, UK*
Supervised by [Sean Rintel](#), [HXD group](#).
Working on inclusiveness of work meetings through identifying the mechanisms of appropriate attention detection and support using machine vision.

Oct. 2016 -
May 2017



Interaction Designer. [Aterlo Networks](#), *Waterloo, ON, Canada*
Interaction design research and web and mobile design for the [Night Shift products](#).
Please see the examples of my work [here](#).

May 2016 -
Sept. 2016



Software Engineer PhD Intern. [Google Inc.](#), [App Search Team](#), *Mountain View, CA, USA*
Android development & user interface design. Designing and running a set of internal user studies, including observations, interviews, and prototype evaluation, then designing and developing an internal tool for connecting several teams - UX design research and Android development..

Sept. 2014 -
Dec. 2019



Teaching Assistantship. [Cheriton School of Computer Science](#), [University of Waterloo](#), *Waterloo, Canada*
UI design and development (CS349, 1 semester); UX design and research methods (CS449/649, 2 semesters); Introduction to computer science (CS116, 1 semester); Introduction to computer science for Global Business and Digital Arts Students (CS105, 3 semesters; CS106, 2 semesters)

Sept. - Dec.
2013, 2015



Lecturer. [Department of Germanic and Slavic Studies](#), [University of Waterloo](#), *Waterloo, Canada*
Teaching a seminar style undergraduate course: Russian Language 201.
Fall 2013 and Fall 2015 semesters.

Apr. 2011 -
Nov. 2011



Instructor/Curriculum Developer for Preschool Bilingual Studies. [London Gates Education Group](#), *Moscow, Russia*
Developing a bilingual curriculum and working with preschool children (2-7 years old).

Sept 2009 -
Aug. 2010



Instructor/Research Supervisor. [Lyceum #1553](#), *Moscow, Russia*
Teaching a highschool elective course on physiological psychology;
Supervising highschool students' research projects.

2007 - 2009



Science Reporter. [Journal "Russian Reporter"](#), *Moscow, Russia*
Weekly contributing to a column covering science news.

Supervised Students / Projects

- Spring 2019 **Jenny Sun.** Undergraduate Research Assistant. *University of Waterloo, Canada.* Currently @ Facebook
- Spring 2019 **Niv Govindaraju.** Undergraduate Research Assistant. *University of Waterloo, Canada.* Currently @ Google
- Winter 2018 **Caroline George.** Undergraduate Research Assistant. *University of Waterloo, Canada.* Currently @ Deloitte
- Spring 2017-
Spring 2019 **UX research projects.** Supervision of in total **62** upper-year undergraduate course UX research projects.
See video demos of projects [here](#), [here](#), and [here](#). *University of Waterloo, Canada.*
- Winter 2016 **Marko Nerandzic.** Undergraduate Research Assistant. Co-supervised with Prof. K. Katsuragawa. *University of Waterloo, Canada.*
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Publications

Peer-reviewed papers

- **Kuzminykh, A.**, Sun, J., Govindaraju, N., Avery, J., Lank, E. Genie In The Bottle: Anthropomorphized Perceptions Of Conversational Agents. *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. ACM, 2020.
- **Kuzminykh, A.**, Rintel, S. Classification of Functional Attention in Video Meetings. *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. ACM, 2020.
- Wehbe, R., Dickson, T., **Kuzminykh, A.**, Nacke, L., Lank, E. Personal Space in Play: Physical and Digital Boundaries in Large-Display Cooperative and Competitive Games. *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. ACM, 2020.
- **Kuzminykh, A.**, Rintel, S. Low Engagement in Remote Meetings As a Communication Practice. *In Proceedings of the 2020 CHI Conference Extended Abstracts on Human Factors in Computing Systems*. ACM, 2020.
- **Kuzminykh, A.**, Cauchard, J. Be Mine: Contextualization of Ownership Research in HCI. *In Proceedings of the 2020 CHI Conference Extended Abstracts on Human Factors in Computing Systems*. ACM, 2020.
- **Kuzminykh, A.**, Lank, E. (2019). How Much is Too Much?: Understanding the Information Needs of Parents of Young Children. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, (IMWUT) 3(2)*, 52. ([PDF](#))
- **Kuzminykh, A.**, Lank, E. People Searched by People: Context-Based Selectiveness in Online Search. *Proceedings of the 2016 DIS Conference on Designing Interactive Systems*. ACM, 2016 ([PDF](#))
- Pietroszek, K., **Kuzminykh, A.**, Wallace, J., Lank, E.. Smartcasting: A Discount 3D Interaction Technique for Public Displays. *Proceedings of the 26th Australian Computer-Human Interaction Conference*. ACM, 2014 ([PDF](#))
- **Kuzminykh, A.**, Enikolopov, S. Perception of Aggressiveness of Communicative Information Depending on a Speaker's Gender. *International Journal of Information & Education Technology*. 5(1), 2015. ([PDF](#))
- **Kuzminykh, A.**, Enikolopov, S. Prevailing perceptions of masculine and feminine aggression. *Psychological Science and Education*. 5, 70-80, 2011. ([PDF](#))

Papers Under Submission

- **Kuzminykh, A.**, Lank, E. Where I End and You Start: Designation of a Protagonist in Sharenting Posts.
- **Kuzminykh, A.**, Avery, J., Lank, E. A Four-Component Conceptual Model of the Conversational Agent Work.

Workshop Papers

- **A.Kuzminykh**, S.Rintel. *Meeting in the Middle: The Interpretation Gap Between People and Machines*. Where is the Human? Bridging the Gap Between AI and HCI (CHI 2019). ([PDF](#))
- **A.Kuzminykh**. *Presence & Co-Presence in Remote and Co-located remote collaboration*. Workshop on Supporting "Local Remote" Collaboration at CSCW 2015. ([PDF](#))
- **A.Kuzminykh**, J.Wallace, R.Zanibbi, S.Scott, E.Lank. *How Changing Communication Channels Affect Communication Patterns: Implications for the Design of Smart Objects*. Workshop on Social Internet of Things at OzCHI 2014. ([PDF](#))
- **A.Kuzminykh**, S.Enikolopov. *Male and female perception of aggressive video*. In Proceedings of The International Conference "Actual Problems of Psychology and Law", p. 228, 2014. ([PDF](#))

Selected Poster Papers & Presentations

- Talk @ [IzraHCI'20](#). Anthropomorphized Perceptions Of Conversational Agents
- Talk @ [UbiComp'19](#). How Much is Too Much? Understanding the Information Needs of Parents of Young Children
- Research talk at [Inria Research Center](#), the [MJOLNIR](#) team, *Lille, France*. November 2016
- Poster at the Google, PhD Interns Research Conference (PIRC), *Mountain View, CA, USA*. July 2016
- Poster at the [Cheriton Research Symposium](#), *University of Waterloo, Waterloo, ON, Canada*. Sept. 2015
- Poster at the [Graphics Interface Conference](#), *Halifax, NS, Canada*. June 2015
- Poster at the [SurfNet Workshop](#), *Calgary, AB, Canada*. Oct. 2014

Selected Appearances in Media

- **University of Waterloo Study Found Consumers Believe Siri is Disingenuous...**
Bret Kinsella. *Voicebot.ai*. Jan.5, 2020
- **People Too Trusting of Virtual Assistants.** *CBC Radio Live Interviews across Canada (Toronto, Ottawa, Kingston and Barrie, London, Thunder Bay, Windsor, Kitchener, Sudbury)*. Jan.7, 2020
- **The more personable a virtual assistant seems, the more data you'll share.**
Nicole Bogart, *CTVNews.ca*. Jan.3, 2020
- **How Humanizing Virtual Assistants Earns Consumer Trust.**
Laurie Sullivan, *MediaPost*, Jan.2, 2020
- **People are trusting virtual assistants way too much.**
Technology.org, Jan.03, 2020
- **Trusting virtual assistants could make us more revealing.**
Christine Clark, *KitchenerToday*, Jan.3, 2020
- **People Too Trusting of Virtual Assistants.**
ACM Tech News. Jan.6, 2020
- **New study from Waterloo suggests parents need to give their kids privacy.**
CTV Kitchener. Aug, 2019
- **Kid tracking apps should avoid feeling like an 'ankle bracelet,' study says.**
Paula Duhatschek, *CBC News*. Aug, 2019
- **How much is too much? Researchers balance information needs of parents with privacy of young children.** *Mirage News*. July 2019
- **When is too much monitoring?** Steve Kannon, *The Observer*. Aug. 2019



Community work

MobileHCI 2020

Committee member at the International ACM Conference on Human-Computer Interaction with Mobile Devices and Services

Feb. 10-Oct.9, 2020

MobileHCI 2021

Late Breaking Work / Poster chair at the International ACM Conference on Human-Computer Interaction with Mobile Devices and Services

Sept. 27-30th, 2021

Women in Computer Science (WICS)

A member of the committee, graduate students advocate

2017-present



Technovation @ Waterloo

Running ideation, paper prototyping, high-fidelity prototyping and UX evaluation workshops for Technovation challenge, teaching 10-18 years old girls to solve real-world problems through technology

2018-2019



Workshop in Computer Science for Young Women

Running a workshop on introduction to HCI and technology design for female highschool students from across Canada. [The centre for education in mathematics and Computing](#), Waterloo, Canada

January 2019



UROC, Undergraduate Research Opportunity Conference

General organisation and leading the HCI projects group with Dr. [Edith Law](#), University of Waterloo, Canada

October 2015



UWaterloo HCI group

Organisation of guests' visits: speakers, professors, researchers, etc. University of Waterloo, Canada

2015-2017



Reviewing papers for CHI PLAY 2015, DIS 2017, CHI 2017, 2018, 2019, 2020, MobileHCI 2020

2014 - present

Awards

2020 [David Johnston International Experience Awards – Lebovic Foundation, Canada](#)

2020 The Doctoral Thesis Completion Award, Faculty of Mathematics, [University of Waterloo, Canada](#)

2018 Runner-up Best Hackathon Project, [Microsoft Research Cambridge, Cambridge, UK](#)

- 2016 Distinguished Teaching Assistantship Award, [Cheriton School of Computer Science, University of Waterloo, Canada](#)
- 2015 Best Poster Award, [Graphics Interface Conference \(GI'15\), Halifax, NS, Canada](#)
- 2007 Winner of the Lomonosov Moscow State University Biology olympiad “[Lomonosov](#)”.
- 2007 Laureate of [The Russian Federation Presidential Award for support of talented youth](#).
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References

Edward Lank	Cheriton School of Computer Science, University of Waterloo, Canada	lank@uwaterloo.ca
Sean Rintel	Microsoft Research Cambridge, HXD group, Cambridge, UK	serintel@microsoft.com
Stacey Scott	School of Computer Science, University of Guelph, Guelph, ON, Canada	stacey.scott@uoguelph.ca
Daniel Vogel	Cheriton School of Computer Science, University of Waterloo, Canada	dvogel@uwaterloo.ca