

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 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, 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

- Ongoing **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.
- 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.
- Ongoing **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.
- May 2016 - Sept. 2016 **User Research to Design an Internal Android Tool**
 [Google Inc., App Search Team, Mountain View, CA, USA](#)
Designing and running a set of internal user studies, including observations, interviews, and prototype evaluation, to design an internal tool for connecting several teams - UX design research.

Nov. 2015 -
Sept. 2016



EmoBuddy: A Game to Support Development of Emotional Intelligence

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

A case study exploring the context of a game-with-a-purpose design seeking to support mental health in young adults. The study supported a game design that focuses on emotional intelligence and related skills to help young adults develop resistance to mental health issues.

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, and analyzing the device-environmental factors in remote and local settings.

June 2014-
Apr. 2016



Online Reputation: Search Results in Context

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

Identifying strategies for vetting, managing, and interpreting person related content in online search. By exploring how selectiveness was realized when individuals were disseminating content online we showed that specific design elements may alleviate the effect of negative online content.

Aug. 2014 -
Sept. 2015



Investigating the Use of Personal Devices with a Shared Digital Tabletop in Groups Performing a Tactical Planning and Execution Task

[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 performing and tools naturally needed for the creative discussion. Understand how changing communication channels affects collaborative creative task performance, both objectively and subjectively.

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*

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

Sept. 2011-
June 2012



Perception of Aggressive Stimuli Among People with Disorders of Depressive Spectrum

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

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

Sept. 2008 -
Sept. 2010



Prevailing Perception of Masculine and Feminine Aggression and Aggressiveness

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

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

Sept. 2005-
Aug. 2006



Specifics of psychological development of preschoolers in urban and rural areas









Supervised by [Dr. Alexey 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.

Ethnographic Fieldwork

- 2009 **Mezen River Villages**, southern coast of the White Sea, Ethnographic research.
- 2005 **The East Coast of Lake Baikal**, Cultural research.
- 2004 **Varzuga village**, Kola Peninsula, the White Sea, Folklore research.
- 2003 **Altai Mountains**, village of **Telengit People**, Cultural research.
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Work Experience

- May 2017 - **Sessional Lecturer**
Aug. 2019 **Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada**
 Designing and teaching an upper-year course on **user-centered design process** and design research methods. ([Spring 2017](#), [Winter 2018](#), [Spring 2019](#)). [Video presentation](#).
- June 2018 - **Research Intern, HCI**
Aug. 2018 **Microsoft Research Cambridge, Cambridge, UK**
 Supervised by **Sean Rintel, HXD group**.
Working on inclusiveness of work meetings through attention detection using machine vision.
- Oct. 2016 - **Interaction Designer**
May 2017 **Aterlo Networks, Waterloo, ON, Canada**
 Interaction design research and web and mobile design for the [Night Shift products](#).
- May 2016 - **Software Engineer PhD Intern**
Sept. 2016 **Google Inc., Mountain View, CA, USA**
 Android development & user interface design.
- Sept. 2014 - **Teaching Assistantship**
Dec. 2019 **Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada**
 HCI: CS449, CS349; Intro to CS for Arts Students: CS105, CS106; Intro to CS: CS116.
- Sept. - Dec. **Sessional Lecturer**
2013, 2015 **Department of Germanic and Slavic Studies, University of Waterloo**
 Teaching a seminar style undergraduate course: Russian Language 201.
- Sept 2009 - **Instructor/Research Supervisor**
Aug. 2010 **Lyceum #1553, Moscow, Russia**
 Teaching physiological psychology, supervising students' research projects.
- 2007 - 2009 **Science Reporter**
 **Journal "Russian Reporter", Moscow, Russia**
Weekly contributing to a column covering science news.
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Publications

Peer-reviewed papers

- 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 ACM Conference on Designing Interactive Systems, 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 on Designing Futures: the Future of Design. 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](#))

Under review

- Kuzminykh, A., Rintel, S. Classification of Functional Attention in Video Meetings. (CHI'20)
- Kuzminykh, A., Sun, J., Govindaraju, N., Avery, J., Lank, E. Genie In The Bottle: Anthropomorphized Perceptions Of Conversational Agents. (CHI'20)
- Kuzminykh, A., Avery, J., Lank, E. A Four-Component Conceptual Model of the Conversational Agent Work Process. (CHI'20)
- Kuzminykh, A., Lank, E. Where I End and You Start: Designation of a Protagonist in Sharenting Posts. (CHI'20)

Workshop Papers & Technical Reports

- 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*. Technical report, University of Waterloo, 2014. Presented at 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](#))

Poster Papers & Presentations

- [UbiComp 2019](#). How Much is Too Much? Understanding the Information Needs of Parents of Young Children
- Google, PhD Interns Research Conference (PIRC), *Mountain View, CA, USA*. July 2016
- [Cheriton Research Symposium](#), *University of Waterloo, Waterloo, ON, Canada*. Sept. 2015
- [Graphics Interface Conference](#), *Halifax, NS, Canada*. June 2015
- [SurfNet Workshop](#), *Calgary, AB, Canada*. Oct. 2014
- [Cheriton Research Symposium](#), *University of Waterloo, Waterloo, ON, Canada*. Sept. 2014

Appearances in Media

- **[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



Supervised Students and 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- **UX research projects**. Supervision of in total 34 upper-year undergraduate course research projects.
- Spring 2019 See video demos of projects [here](#), [here](#), and [here](#). *University of Waterloo, Canada*.

Community work

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



Awards

- 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 at [Graphics Interface Conference](#), *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](#).
- 2006 Winner of [The Vernadsky National Contest of Student Research Projects](#).

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
Jennifer Lin	Google Inc., Mountain View, CA, USA	jenlin@google.com