

PhD Candidate Mechanical and Industrial Engineering University of Toronto <u>cristina.getson@mail.utoronto.ca</u> <u>www.cristinagetson.com</u>

I explore how people interact with social robots. I hold a Bachelor of Applied Science in Engineering Science from the University of Toronto, and collaborative specializations in Psychology and Robotics. I have extensive product and project management experience in the telecommunication and educational technology sectors. Currently researching human-robot interaction, ethics, and AI in healthcare, with a focus on the design of social robots to assist vulnerable populations.

### **EDUCATION**

2020 -	- 2025	Doctor of Philosophy (Ph.D.), University of Toronto
		Mechanical and Industrial Engineering, Robotics
		Advisor: Dr. Goldie Nejat
		Thesis: Development of a Framework for Social Robot Behaviours and Strategies in
		Human-Robot Interaction with Vulnerable Populations
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1994 – 1998 Bachelor of Applied Science (B.A.Sc.), University of Toronto Division of Engineering Science, Biomedical option

1996 – 1997 Institut National Polytechnique de Grenoble, France Rhône-Alpes international student exchange program

## ACADEMIC EXPERIENCE

- 2024 2025 Graduate Fellow, Schwartz Reisman Institute for Technology and Society
- 2020 2025 **Research Assistant**, Autonomous Systems and Biomechatronics Lab Mechanical and Industrial Engineering, University of Toronto
- 2021 2024 **Teaching Assistant**, MIE443: Mechatronics Systems, Design & Integration, University of Toronto

## PROFESSIONAL EXPERIENCE

2015 – 2020	<b>Director/Owner</b> , Cristina Getson Learning Solutions Managed the redevelopment of clients' online professional learning platforms Provided educational technology consulting services Created and tested bilingual digital tools for online learning (K – 12)
2014 – 2015	<b>Founder</b> , Like2Minds Built a learning recommendation service that curates educational content based on an individual's learning preferences Researched product-market fit; explored corporate education solutions Used agile methodology to build a Minimum Viable Product
2010 - 2014	<b>Digital Product Manager</b> , Pearson Education Canada Led the delivery of a web application tool to help teachers capture learning in the classroom; managed the design and development of a mobile version of the tool; used agile development to scale the product across multiple grades Managed the development and customization of a digital content management system for the K – 12 market; conducted usability testing; oversaw content management, metadata creation to place legacy print product onto a digital platform Led, coordinated, and conducted pilot project research based on new digital product prototypes; consulted on mobile strategy across disciplines for K – 12 Researched, planned, created, and developed the School Division's first educational mobile apps on the iOS platform (in mathematics and early language learning) Commissioned and managed freelance staff
2004 - 2010	<b>Project Manager</b> , School Math, Pearson Education Canada Managed the development and creation of new digital content for K – 12 math Substantively edited manuscripts by working with authors, reviewers, senior editors

2001 – 2003 **Business Analyst & Project Manager**, ember ec3 inc. Consulted with leading financial services companies, assisted with business planning, implementation, and maintenance of ember's web-based software Worked with Sales/Marketing, Engineering, and Design teams on project proposals Oversaw QA testing; acted as liaison between client and Engineering team Performed competitive analyses of competitors' products

to take a project through from inception to completion

Collaborated with the Publisher, and teams in New Media, Design, and Production

1999 – 2001 Systems Engineer, Optical Networks, Nortel Networks
Developed customized presentation material and delivered client learning sessions on Nortel's portfolio of high-capacity optical networking projects
Created and managed project plans to support the introduction, planning, and deployment of new Optical Networks portfolio into customers' or affiliated/subsidiaries' networks

 1998 – 1999 International Project Manager, IBM Canada
Managed and coordinated multiple international data network installations, from planning to installation

### **GRANTS & AWARDS**

- 2024 Schwartz Reisman Institute for Technology and Society Graduate Fellowship (\$7,500)
- 2024 Queen Elizabeth II Graduate Scholarship in Science and Technology (\$15,000)
- <sup>2023</sup> Queen Elizabeth II Graduate Scholarship in Science and Technology (\$15,000)
- 2022 Department of Mechanical and Industrial Engineering Endowed Fellowship: Applied Science Graduate Student Endowment Fund (APSC GSEF) Award (\$6,500)
- 2022 University of Toronto Mechanical & Industrial Engineering Conference Grant (\$750)
- 2022 University of Toronto School of Graduate Studies Travel Grant (\$1,250)

### PUBLICATIONS

#### Peer-Reviewed Journal Articles

- 2024 **C. Getson** and G. Nejat, "Care Providers' Perspectives on the Design of Assistive Persuasive Behaviors for Socially Assistive Robots," Journal of the American Medical Directors' Association, special issue on Technology in PA-LTC: Innovations and Applications, 2024.
- 2023 C. Getson and G. Nejat, "Human-Robot Interactions with an Autonomous Health-Screening Robot in Long-Term Care Settings," Advanced Robotics, 37:24, 1576 – 1590, 2023.
- 2022 C. Getson and G. Nejat, "The Adoption of Socially Assistive Robots for Long-Term Care: During the Pandemic and in a Post-COVID-19 Society," Healthcare Management Forum Special Edition on Aging, Technology and Health in a Post-COVID World, Healthcare Management Forum, Vol. 35(5) 301 – 309, 2022.
- 2021 **C. Getson** and G. Nejat, "Socially Assistive Robots Helping Older Adults through the Pandemic and Life after COVID-19," Robotics 2021, 10, 106.

#### Peer-Reviewed Conference Papers

- 2024 C. Getson and G. Nejat, "Investigating Persuasive Socially Assistive Robot Behavior Strategies for Sustained Engagement in Long-Term Care," 2024 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), Workshop on *HRI4WellBeing* (extended abstract)
- 2022 C. Getson and G. Nejat, "The Robot Screener Will See You Now: A Socially Assistive Robot for COVID-19 Screening in Long-Term Care Homes," 2022 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), Napoli, Italy, pp. 672 – 677.

## SERVICE

2023 - 2024	Editorial Committee Volunteer, Canadian Science Policy Centre
2023 - 2024	Advisory Committee Volunteer, AGE-WELL
2022	Judge for the Undergraduate Engineering Research Day, U of T

# PRESENTATIONS & INVITED TALKS

August 2024	IEEE International Conference on Robot and Human Interaction (RO-MAN), HRI4WellBeing workshop presenter, <i>Investigating Persuasive Socially Assistive Robot</i> <i>Behavior Strategies for Sustained Engagement in Long-Term Care</i>
May 2024	<b>Guest Lecturer</b> MIE 1070: Intelligent Robots for Society Lecture on: <i>The Age of Social Robots</i>
April 2024	<b>Tutorial Instructor</b> MIE443: Mechatronics Systems, Design & Integration Developed and delivered a tutorial on robot emotions
October 2023	AGE-WELL annual conference, presenter Social Robots as Assistants: Assistive Persuasive Behaviours for Social Robots
July 2023	Toronto Robotics Conference, University of Toronto Robotics Institute, presenter <i>The Design and Development of a Social Robot for COVID-19 Screening</i>
May 2023	The New Reality, Global News segment <i>How Tech is Helping Canadians Living with Dementia</i>
October 2022	Supply AI Conference, MaRS Discovery District, panelist Robots Making Life Easier for Businesses Large and Small
October 2022	AGE-WELL annual conference, poster session The Adoption of Socially Assistive Robots for Long-Term Care
September 2022	Revive & Thrive session for the Canadian College of Health Leaders, panelist <i>The adoption of socially assistive robots in long-term, private, and hospital care</i>
August 2022	IEEE International Conference on Robot and Human Interaction (RO-MAN), presenter, <i>The Robot Screener Will See You Now: A Socially Assistive Robot for COVID-19 Screening in Long-Term Care Homes</i>
April 2022	AdvantAge Ontario annual conference, presenter A Robot Screener in Long-Term Care Homes
2021, 2022	Roboethics Competition ( <u>https://competition.raiselab.ca/</u> ) (Winner, RO-MAN 2021; Honourable Mention, ICRA 2022)

## EXTRA-CURRICULAR (<u>WWW.CRISTINAGETSONART.COM</u>)

- 2019, 2020 Toronto Outdoor Art Fair (Toronto, ON, Canada)
- 2020 Art Palm Beach, Steidel Contemporary (Palm Beach, Florida, USA)
- 2019 Arta Gallery (Toronto, ON, Canada)
- 2019 Elaine Fleck Gallery (Toronto, ON, Canada)
- 2019 Blue Crow Gallery (Toronto, ON, Canada)
- 2018 Aqua Art Miami (Miami, Florida, USA)
- 2018 Texas Contemporary Art Fair (Houston, Texas, USA)
- 2018 Artist residency, Palazzo Monti (Brescia, Italy)
- 2017, 2018 Queen West Art Crawl (Toronto, ON, Canada)
- 2017, 2018 The Other Art Fair (Brooklyn, NY, USA)