STELA HANBYEOL SEO
KYOTO UNIVERSITY (京都大学)
stela.seo@i.kyoto-u.ac.jp
stelaseo.ca

AFFILIATIONS

Assistant Professor (助教)

Human-Robot Interaction Lab (ヒューマンロボットインタラクション分野)

Social Informatics Course (社会情報学コース)

Graduate School of Informatics (大学院情報学研究科 情報学専攻)

Kyoto University (京都大学), JAPAN

PUBLICATIONS

Peer Reviewed Journal Publications

Daniel J. Rea, **Stela H. Seo**. **"**Still Not Solved: A Call for Renewed Focus on User-Centered Teleoperation Interfaces," *Frontiers in robotics and AI*, vol.9, 2022. Frontiers Media S.A. DOI: 10.3389/frobt.2022.704225

Stela H. Seo, James E. Young, Pourang Irani. "How are your robot friends doing? A design exploration of graphical techniques supporting awareness of robot team members in teleoperation," *International Journal of Social Robotics*, vol.13, no.4, pp.725-749, 2021. Springer. DOI: 10.1007/s12369-020-00670-9

Daniel J. Rea, **Stela H. Seo**, James E. Young. "Social robotics for nonsocial teleoperation: leveraging social techniques to impact teleoperator performance and experience," *Current Robotics Reports*, 2020. Springer. DOI: 10.1007/s43154-020-00020-7

Stela H. Seo, Keelin Griffin, James E. Young, Andrea Bunt, Susan Prentice, Veronica Loureiro-Rodríguez. "Investigating people's rapport building and hindering behaviors when working with a collaborative robot," *International Journal of Social Robotics*, vol.10, no.1, pp.147-161, 2018. Springer. DOI: 10.1007/s12369-017-0441-8

Denise Y. Geiskkovitch, **Stela H. Seo**, Derek Cormier, James E. Young. "Please continue, we need more data: an exploration of obedience to robots," *ACM Transactions on Human-Robot Interaction*, vol.5, no.1, pp.82-99, 2016. DOI: 10.5555/3109939.3109943

Pak Ching Li, G. H. John van Rees, **Stela H. Seo**, Navin M. Singhi. "Friendship 3-hypergraphs," *Discrete Mathematics*, vol.312, no.11, pp.1892-1899, 2012. Elsevier. DOI: 10.1016/j.disc.2012.02.025

Peer Reviewed Conference Full Papers

Xiang Pan, Malcolm Doering, **Stela H. Seo**, Takayuki Kanda. "Communicating Physical Properties through Robot Object Manipulation," *ACM/IEEE International Conference on Human-Robot Interaction (HRI2025)*, March 2025. Melbourne, Australia. DOI: 10.5555/3721488.3721579

Merel Keijsers, Luisa Porzio, Anthony Tricarico, Daniel J. Rea, **Stela H. Seo**, and Takayuki Kanda. "Apples and oranges: Validity and Reliability of the Three Main Anthropomorphism Measures," *International Conference of Social Robotics (ICSR2024)*, October 2024. Odense, Denmark.

Xinyue Gui, Mikiya Kusunoki, Bofei Huang, **Stela H. Seo**, Chia-Ming Chang, Haoran Xie, Manabu Tsukada, Takeo Igarashi. "Shrinkable Arm-based eHMI on Autonomous Delivery Vehicle for Effective Communication with Other Road Users," *ACM International Conference on Automotive User Interfaces (AutomotiveUI'24)*, September 2024. Stanford, California, USA.

Rei Nagaya, **Stela H. Seo**, Takayuki Kanda. "Measuring People's Boredom and Indifference to the Robot's Explanation in a Museum Scenario," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2023)*, October 2023. Detroit, Michigan, USA. DOI: 10.1109/IROS55552.2023.10341996

Xinyue Gui, Koki Toda, **Stela H. Seo**, Chia-Ming Chang, Takeo Igarashi. ""I am going this way": Gazing eyes on self-driving car show multiple moving directions," *ACM International Conference on Automotive User Interfaces (AutomotiveUI'22)*, September 2022. Seoul, Republic of Korea. DOI: 10.1145/3543174.3545251

Chia-Ming Chang, Koki Toda, Xinyue Gui, **Stela H. Seo**, Takeo Igarashi. "Can eyes on a car reduce traffic accidents?," *ACM International Conference on Automotive User Interfaces (AutomotiveUI'22)*, September 2022. Seoul, Republic of Korea. DOI: 10.1145/3543174.3546841

Stela H. Seo, James E. Young. "What happened while I was away? Leveraging visual transition techniques to convey robot states in multi-robot teleoperation," *International Conference on Social Robotics (ICSR2021)*, November 2021. Springer. Singapore. DOI: 10.1007/978-3-030-90525-5_66
[oral presentation by **Stela H. Seo**]

Chris Vattheuer, Annalena Nora Baecker, Denise Y. Geiskkovitch, **Stela H. Seo**, Daniel J. Rea, James E. Young. "Blind Trust: How making a device humanoid reduces the impact of functional errors on trust," *International Conference on Social Robotics (ICSR2020)*, November 2020. Springer. Golden, Colorado, USA. DOI: 10.1007/978-3-030-62056-1_18

Denise Y. Geiskkovitch, Daniel J. Rea, Agape Y. Seo, **Stela H. Seo**, Brittany Postnikoff, James E. Young. "Where should I sit? Exploring the impact of seating arrangement in a human-robot collaborative task," *ACM In-Cooperation International Conference on Human-Agent Interaction (HAI2020),* November 2020. Sydney, Australia. DOI: 10.1145/3406499.3415080

Elaheh Sanoubari, **Stela H. Seo**, Diljot S. Garcha, James E. Young, Verónica Loureiro-Rodríguez. "Good robot design or Machiavellian? An in-the-wild robot leveraging minimal knowledge of passersby's culture," *ACM/IEEE International Conference on Human-Robot Interaction (HRI2019), alt.HRI track*, March 2019. Daegu, Republic of Korea. DOI: 10.1109/HRI.2019.8673326

Stela H. Seo, James E. Young, Pourang Irani. "Where are the robots? In-feed embedded techniques for visualizing robot team member locations," *IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN*, August 2017. Lisbon, Portugal. DOI: 10.1109/ROMAN.2017.8172352
[oral presentation by **Stela H. Seo**]

Stela H. Seo, Daniel J. Rea, Joel Wiebe, James E. Young. "Monocle: interactive detail-in-context using two pan-and-tilt cameras to improve teleoperation effectiveness," *IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN*, August 2017. Lisbon, Portugal. DOI: 10.1109/ROMAN.2017.8172419
[oral presentation by **Stela H. Seo**]

Daniel J. Rea, **Stela H. Seo**, Neil Bruce, James E. Young. "Movers, shakers, and those who stand still: visual attention-grabbing techniques in robot teleoperation," *ACM/IEEE International Conference on Human-Robot Interaction (HRI2017)*, March 2017. Vienna, Austria. DOI: 10.1145/2909824.3020246

Stela H. Seo, Jihyang Gu, Seongmi Jeong, Keelin Griffin, James E. Young, Andrea Bunt, Susan Prentice. "Women and men collaborating with robots on assembly lines: designing a novel evaluation scenario for collocated human-robot teamwork," *ACM In-Cooperation International Conference on Human-Agent Interaction (HRI2015)*, October 2015. Daegu, Republic of Korea. DOI: 10.1145/2814940.2814948
[oral presentation by **Stela H. Seo**]

Stela H. Seo, Denise Geiskkovitch, Masayuki Nakane, Corey King, James E. Young. "Poor thing! Would you feel sorry for a simulated robot? A comparison of empathy toward a physical and a simulated robot," *ACM/IEEE International Conference on Human-Robot Interaction (HRI2015)*, March 2015. Portland, Oregon, USA. DOI: 10.1145/2696454.2696471
[oral presentation by **Stela H. Seo**]

Stela H. Seo, Kazuki Takashima, Jim Young, Yoshifumi Kitamura. "Alerting users by animating content on a transforming tabletop interface," *Human Interface Symposium, HIS*, September 2014. Kyoto, Japan.
[oral presentation by **Stela H. Seo**]

Ashish Singh, **Stela H. Seo**, Yasmeen Hashish, Masayuki Nakane, James E. Young, Andrea Bunt. "An interface for remote robotic manipulator control that reduces task load and fatigue," *IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN*, August 2013. Gyeongju, Republic of Korea. DOI: 10.1109/ROMAN.2013.6628401
[oral presentation by **Stela H. Seo**]

Jacky Baltes, **Stela Seo**, Chi Tai Cheng, M.C. Lau, John Anderson. "Learning of facial gestures using SVMs," *Next Wave in Robotics: Communications in Computer and Information Science*, vol. 212, pp. 147-154, 2011. Springer. DOI: 10.1007/978-3-642-23147-6_18

Peer Reviewed Conference Extended Abstracts, Posters, Videos, Workshops

Xinyue Gui, Ehsan Javanmardi, **Stela H. Seo**, Vishal Chauhan, Chia-Ming Chang, Manabu Tsukada, Takeo Igarashi. ""Text + Eye" on Autonomous Taxi to Provide Geospatial Instructions to Passenger," *ACM In-Cooperation International Conference on Human-Agent Interaction*, November 2024. Swansea University, UK.

Xinyue Gui, Chia-Ming Chang, **Stela Seo**, Koki Toda, Takeo Igarashi. "Scenarios Exploration: How AR-based Speech Balloons Enhance Car-to-Pedestrian Interaction," *HCI International 2024 International Conference on Human-Computer Interaction*, June 2024. Washington DC, USA. DOI: 10.1007/978-3-031-61963-2_21

Stela H. Seo, Daniel J. Rea, Kanae Kochigami, Takayuki Kanda, James E. Young, Yukiko Nakano, Alberto Sanfeliu, Hiroshi Ishiguro. "Symbiotic Society with Avatars (SSA): Toward Empowering Social Interactions Beyond Space and Time." *In Companion of ACM/IEEE International Conference on Human-Robot Interaction*, March 2024, Boulder, Colorado, USA. DOI: 10.1145/3610978.3638150
[organizing member of the workshop]

Xinyue Gui, Koki Toda, **Stela H. Seo**, Felix Martin Eckert, Chia-Ming Chang, Xiang 'Anthony' Chen, Takeo Igarashi. "A Field Study on Pedestrians' Thoughts toward a Car with Gazing Eyes," *ACM International Conference on Human Factors in Computing Systems, Extended Abstracts*, April 2023. Hamburg, Germany. DOI: 10.1145/3544549.3585629

Hooman Hedayati, **Stela H. Seo**, Takayuki Kanda, Daniel J. Rea, Sean Andrist, Yukiko Nakano, Hiroshi Ishiguro. "Symbiotic Society with Avatars (SSA): Beyond Space and Time," *In Companion of ACM/IEEE International Conference on Human-Robot Interaction*, March 2023. Stockholm, Sweden. DOI: 10.1145/3568294.3579964
[organizing member of the workshop]

Stela H. Seo, James E. Young. "Picassnake: robot performance art," *ACM/IEEE International Conference on Human-Robot Interaction, Video Presentations*, March 2017. Vienna, Austria. DOI: 10.1145/3029798.3036650

Denise Geiskkovitch, **Stela H. Seo**, James E. Young. "Autonomy, embodiment, and obedience to robots," *ACM/IEEE International Conference on Human-Robot Interaction, HRI Pioneers Workshop*, March 2015. Portland, Oregon, USA. DOI: 10.1145/2701973.2702723

Stela H. Seo, James E. Young, Andrea Bunt. "Exploring the role of affect recognition in web-capable applications," *Graphics Interface Conference, Poster Session*, May 2013. Regina, Saskatchewan, Canada.

Non-peer Reviewed Publications

Stela H. Seo, James E. Young, and Andrea Bunt. "Exploring user attitudes toward affect recognition in web-capable applications," *Technical Report*, 2012. University of Manitoba.

ACADEMIC SERVICE

11/2022–03/2025 MANAGING DIRECTOR
      ACM/IEEE Conference of Human-Robot Interaction Steering Committee (HRI SC)

Conference Organizing Member

Program committee member at *ACM/IEEE Human-Robot Interaction* (HRI 2023, 2025)

Virtual conference chair at *ACM/IEEE Human-Robot Interaction* (HRI 2022)
  [achievement: Excellence in Service Award]

Student volunteer co-chair at *ACM/IEEE Human-Robot Interaction* (HRI 2017)

Poster co-chair at *ACM In-Cooperation Human-Agent Interaction* (HAI 2023)

Program committee member at *ACM In-Cooperation Human-Agent Interaction* (HAI 2022)

Publicity co-chair at *ACM In-Cooperation Human-Agent Interaction* (HAI 2019)

Web chair at *Next Generation Human-Agent Interaction, Human-Agent Interaction* (NGHAI 2016, 2017)

Conference Paper Peer Review

ACM/IEEE Human-Robot Interaction (HRI 2016, 2017, 2018, 2019, 2020, 2022, 2023, 2024, 2025)

ACM Automotive User Interfaces and Interactive Vehicular Applications (AutoUI 2023)

ACM Human Factors in Computing Systems (CHI 2017, 2022, 2023, 2025)

ACM In-Cooperation Human-Agent Interaction (HAI 2017, 2018, 2019, 2021, 2022, 2024)

ACM Interactive Surfaces and Spaces (ISS 2024)

ACM Conference and Exhibition on Computer Graphics & Interactive Techniques in Asia (SIGGRAPH ASIA 2019)

ACM Spatial User Interaction (SUI 2014, 2016)

ACM Tangible Embedded and Embodied Interaction (TEI 2016, 2019, 2020)

ACM User Interface Software and Technology (UIST 2019)

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2023)

IEEE International Conference on Robotics & Automation (ICRA 2025)

IEEE 3D User Interfaces (3DUI 2017)

IEEE Robotics and Automation Letters (RA-L 2022, 2023)

IEEE Robots and Human Interactive Communications (RO-MAN 2015, 2016, 2017, 2018, 2020, 2021, 2023)

International Conference on Social Robotics (ICSR 2024)

Robotics Science and Systems Pioneers (RSS Pioneers 2023)

Graphics Interface (GI 2015, 2019)

Advances in Computer Entertainment Technology (ACE 2017)

Journal Paper Peer Review

ACM Transactions on Human-Robot Interaction (THRI 2019, 2020, 2022, 2023, 2024, 2025)

ACM Transactions on Computer-Human Interaction (TOCHI 2024)

IEEE Transactions on Affective Computing (TAFFC 2024)

Springer International Journal of Social Robotics (SORO 2023)

Frontiers in Robotics and AI, section Human-Robot Interaction (Frontiers 2019)

Outreach Staff

"Picassnake: robot performance art," *Science Rendezvous*, 2016, Manitoba, Canada.

Technical Consultant

Seema Goel. "To Move As One," *Art Gallery of Southwestern Manitoba*, 2016. Brandon, Manitoba, Canada.

Media Attention

Stela H. Seo. "Would you feel sorry for a simulated robot? Study shows people empathize more with the real thing,"
Robohub (http://robohub.org), 2015.

RESEARCH FUNDING

04/2024–03/2029	(CO-I) JSPS GRANT IN AID FOR SCIENTIFIC RESEARCH (A) (GENERAL) [JSPS 科学研究費補助金 基盤研究(A)]
	TITLE: ロボットのモラルインタラクションの構成的解明 (PI: Takayuki Kanda (神田 崇行))
	¥36,500,000 JPY [national]
10/2021–03/2022	(PI) KYOTO UNIVERSITY RESEARCH FUND FOR YOUNG SCIENTISTS (START-UP) FY 2021
	京都大学若手研究者スタートアップ研究費 2021 年度
	¥480,000 JPY [institutional]

RESEARCH EXPERIENCE

04/2025–PRESENT	PROGRAM-SPECIFIC ASSOCIATE PROFESSOR
	Human-Robot Interaction Lab, Social Informatics Course, Graduate School of Informatics, Kyoto University, Japan
07/2021–03/2025	ASSISTANT PROFESSOR
	Human-Robot Interaction Lab, Social Informatics Course, Graduate School of Informatics, Kyoto University, Japan
09/2012–04/2021	RESEARCH ASSISTANT (M.SC. & PH.D.)
	Human-Robot Interaction Lab, Department of Computer Science, University of Manitoba, Canada supervisor: James E. Young
05/2014–09/2014	RESEARCH ASSISTANT (INTERNSHIP ABROAD)
	Interactive Content Design Lab, Research Institute of Electrical Communication, Tohoku University, Japan supervisor: Yoshifumi Kitamura, James E. Young, and Kazuki Takashima
01/2014–06/2014	RESEARCH ASSISTANT (INDUSTRIAL COLLABORATION)
09/2012–02/2013	Human-Robot Interaction Lab, Department of Computer Science, University of Manitoba, Canada Inuktun Services Ltd., British Columbia, Canada supervisor: James E. Young
05/2012–08/2012	RESEARCH ASSISTANT
	Human-Robot Interaction Lab, Department of Computer Science, University of Manitoba, Canada supervisor: James E. Young and Andrea Bunt
01/2012–04/2012	UNDERGRADUATE HONOURS PROJECT
	Human-Robot Interaction Lab, Department of Computer Science, University of Manitoba, Canada supervisor: James E. Young
09/2011–12/2011	RESEARCH ASSISTANT (CO-OP WORK TERM)
	Human-Robot Interaction Lab, Department of Computer Science, University of Manitoba, Canada supervisor: James E. Young and Andrea Bunt

04/2009–08/2011	RESEARCH ASSISTANT
	Autonomous Agents Lab, Department of Computer Science, University of Manitoba, Canada
	supervisor: John Anderson and Jacky Baltes
01/2010–04/2010	RESEARCH ASSISTANT (CO-OP WORK TERM)
	Computational Discrete Mathematics Lab, Department of Computer Science, University of Manitoba, Canada
	supervisor: John van Rees

TEACHING EXPERIENCE

10/2024–01/2025	COMPUTER SCIENCE LABORATORY AND EXERCISE 4: ROBOT PROGRAMMING (計算機科学実験及演習4：ロボットプログラミング)
	Computer Science, Kyoto University, Japan (京都大学 計算機学科)
	instructors: Dražen Brščić, **Stela H. Seo**
10/2024–01/2025	COMPUTER SCIENCE LABORATORY AND EXERCISE 2: SOFTWARE (計算機科学実験及演習2：ソフトウェア)
	Computer Science, Kyoto University, Japan (京都大学 計算機学科)
	instructors: Kazunari Kato (加藤 和成), Koji Inoue (井上 昂治), **Stela H. Seo**, Shiyao Ding (丁 世堯) [in ascending order]
04/2024–07/2024	PRACTICE OF INFORMATION SYSTEMS (情報システム論実習)
	Graduate School of Informatics, Kyoto University, Japan (京都大学 情報学研究科)
	instructors: Takayuki Ito (伊藤 孝行), Ryuta Arisaka (蟻坂 竜大), Shiyao Ding (丁 世堯), Rafik Hadfi, Takayuki Kanda (神田 崇行), **Stela H. Seo**
04/2024–07/2024	INFORMATION SYSTEM ANALYSIS (情報システム分析論)
	Graduate School of Informatics, Kyoto University, Japan (京都大学 情報学研究科)
	instructors: Hideyuki Doi (土居 秀幸), Hideaki Nishizawa (西澤 秀明), Nobuhito Ohte (大手 信人), Lina A. Koyama (小山 里奈), Yutaka Yamauchi (山内 裕), Hiroyuki Matsui (松井 啓之), Takayuki Kanda (神田 崇行), Dražen Brščić, **Stela H. Seo**
04/2024–07/2024	ILAS SEMINAR: LET'S THINK ABOUT THE FUTURE WITH ROBOTS (ILAS セミナー：ロボットとの未来を考える)
	Institute for Liberal Arts and Sciences, Kyoto University, Japan (京都大学 国際高等教育院)
	instructors: Takayuki Kanda (神田 崇行), **Stela H. Seo**
03/20/2024	DEPARTMENTAL RESEARCH SEMINAR
	Department of Computer Science, Faculty of Science, University of Manitoba, MB, Canada
	invited speaker: **Stela H. Seo** [title: Exploring Avatar Teleoperation in the Wild]
03/19/2024	COMP4020 HUMAN-COMPUTER INTERACTION II
	Department of Computer Science, Faculty of Science, University of Manitoba, MB, Canada
	instructor: James E. Young
	invited speaker: **Stela H. Seo** [title: Avatar Teleoperation Experiments Ideas]
10/2023–01/2024	COMPUTER SCIENCE LABORATORY AND EXERCISE 4: ROBOT PROGRAMMING (計算機科学実験及演習4：ロボットプログラミング)
	Computer Science, Kyoto University, Japan (京都大学 計算機学科)
	instructors: Dražen Brščić, **Stela H. Seo**
04/2023–07/2023	PRACTICE OF INFORMATION SYSTEMS (情報システム論実習)
	Graduate School of Informatics, Kyoto University, Japan (京都大学 情報学研究科)
	instructors: Takayuki Ito (伊藤 孝行), Ryuta Arisaka (蟻坂 竜大), Shiyao Ding (丁 世堯), Rafik Hadfi, Takayuki Kanda (神田 崇行), **Stela H. Seo**
04/2023–07/2023	INFORMATION SYSTEM ANALYSIS (情報システム分析論)
	Graduate School of Informatics, Kyoto University, Japan (京都大学 情報学研究科)
	instructors: Takayuki Kanda (神田 崇行), Nobuhito Ohte (大手 信人), Hiroyuki Matsui (松井 啓之), Yutaka Yamauchi (山内 裕), Qiang Ma (馬 強), Dražen Brščić, **Stela H. Seo**, Lina A. Koyama (小山 里奈), Hideaki Nishizawa (西澤 秀明)

04/2023–07/2023 COMPUTER SCIENCE LABORATORY AND EXERCISE 3 HARDWARE (計算機科学実験及演習 3：ハードウェア)

Computer Science, Kyoto University, Japan (京都大学 計算機学科)

instructors: Kazunari Kato (加藤 和成), Daisuke Kotani (小谷 大祐), **Stela H. Seo**, Kei Shimonishi (下西 慶), Ryota Yasudo (安戸 僚汰) [in ascending order]

04/2023–07/2023 ILAS SEMINAR: LET'S THINK ABOUT THE FUTURE WITH ROBOTS (ILAS セミナー：ロボットとの未来を考える)

Institute for Liberal Arts and Sciences, Kyoto University, Japan (京都大学 国際高等教育院)

instructors: Takayuki Kanda (神田 崇行), **Stela H. Seo**

03/07/2023 SPECIAL TOPICS IN INFORMATION TECHNOLOGY
Faculty of Business and IT, Ontario Tech University, ON, Canada
instructor: Patrick Hung
invited speaker: **Stela H. Seo** [title: (a bit of…) Social HRI]

10/2022–01/2023 COMPUTER SCIENCE LABORATORY AND EXERCISE 4: ROBOT PROGRAMMING (計算機科学実験及演習 4：ロボットトプログラミング)

Computer Science, Kyoto University, Japan (京都大学 計算機学科)

instructors: Dražen Brščić, **Stela H. Seo**

07/04/2022 USER INTERFACE (ユーザーインターフェイス)

School of Science, University of Tokyo, Japan (東京大学 理学部)

instructor: Igarashi Takeo (五十嵐健夫)

invited speaker: **Stela H. Seo** [title: Social Teleoperation in Human-Robot Interaction]

04/2022–07/2022 INFORMATION SYSTEM ANALYSIS (情報システム分析論)

Graduate School of Informatics, Kyoto University, Japan (京都大学 情報学研究科)

instructors: **Stela H. Seo**, …

04/2022–07/2022 COMPUTER SCIENCE LABORATORY AND EXERCISE 1 (計算機科学実験及演習 1)

Computer Science, Kyoto University, Japan (京都大学 計算機学科)

instructors: Ryuta Arisaka (蟻坂 竜大), Kazunari Kato (加藤 和成), **Stela H. Seo**, Koh Takeuchi (竹内 孝) [in ascending order]

10/2021–01/2022 COMPUTER SCIENCE LABORATORY AND EXERCISE 4: ROBOT PROGRAMMING (計算機科学実験及演習 4：ロボットトプログラミング)

Computer Science, Kyoto University, Japan (京都大学 計算機学科)

instructors: Dražen Brščić, **Stela H. Seo**

01/2018–04/2018 COMP2160 PROGRAMMING PRACTICES
Computer Science, University of Manitoba, Canada
course director: **Stela H. Seo** [Sessional Instructor]

09/2017–12/2017 COMP2160 PROGRAMMING PRACTICES
Computer Science, University of Manitoba, Canada
course director: Yang Wang
course co-instructor: **Stela H. Seo** [Sessional Instructor]

Teaching Assistant in Department of Computer Science, University of Manitoba, Canada

COMP1010 INTRODUCTION TO COMPUTER SCIENCE (S15 YOUNG)
COMP1260 COMPUTER USAGE I (F12 PENNER)
COMP2140 DATA STRUCTURES AND ALGORITHMS (F11 DUROCHER)
COMP2160 PROGRAMMING PRACTICES (W15 COOPER, F14 BOYER & COOPER, F13 ZAPP & BRAICO, F11 BRAICO)
COMP3010 DISTRIBUTED COMPUTING (S12 BRAICO)
COMP3020 HUMAN-COMPUTER INTERACTION I (F13 YOUNG)
COMP3350 SOFTWARE ENGINEERING I (W13 BRAICO)
COMP3430 OPERATING SYSTEMS (S17 YOUNG, W16 BRAICO, W15 BOYER, W14 YOUNG, W13 YOUNG, W12 GRAHAM)
COMP3490 COMPUTER GRAPHICS I (F20 YOUNG)
COMP4020 HUMAN-COMPUTER INTERACTION II (W20 YOUNG)

COMP4180   INTELLIGENT MOBILE ROBOTICS (F11 BALTES)
COMP4360   MACHINE LEARNING (W12 BALTES)

INDUSTRY EXPERIENCE

05/2011–08/2011   SOFTWARE DEVELOPER (CO-OP WORK TERM)
Taibotics, Kaohsiung, Taiwan

09/2010–05/2011   WEB APPLICATION DEVELOPER
Manitoba Centre of Health Policy, University of Manitoba

02/2009–06/2009   JAPANESE LANGUAGE TUTOR
Manitoba Japanese Canadian Cultural Centre

AWARDS

Academic Awards

03/2022   EXCELLENCE IN SERVICE AWARD
ACM/IEEE International Conference on Human-Robot Interaction 2022 [international]

09/2018–08/2019   ALEXANDER GRAHAM BELL CANADA GRADUATE SCHOLARSHIP-DOCTORAL (CGS-D)
Natural Sciences and Engineering Research Council of Canada
$35,000 CAD per year [national]

09/2016–08/2018   POSTGRADUATE SCHOLARSHIPS-DOCTORAL (PGS-D)
Natural Sciences and Engineering Research Council of Canada
$21,000 CAD per year (upgraded to NSERC CGS-D) [national]

09/2015–08/2019   CS ENTRANCE AWARD
Department of Computer Science, University of Manitoba
$80,000 CAD in total (reduced to $39,500 CAD due to the funding limit) [departmental]

09/2015–08/2016   UNIVERSITY OF MANITOBA GRADUATE FELLOWSHIP (UMGF)
Faculty of Graduate Studies, University of Manitoba
$18,000 CAD per year (discontinued after receiving NSERC PGS-D) [institutional]

09/2012–08/2014   CS ENTRANCE AWARD
Department of Computer Science, University of Manitoba
$32,000 CAD in total [departmental]

2009, 2011   DEAN'S HONOUR LIST
Faculty of Science, University of Manitoba [institutional]

International Competitions

05/2016   ROBOTART COMPETITION (TEAM 6TH PLACE) USING PICASSNAKE
RobotArt Organization (http://robotart.org) $5,000 USD

08/2011   MARATHON (TEAM 2ND PLACE) USING DARWIN
HuroCup – Humanoid Robot Competition
Federation of International Robot-soccer Association (FIRA) Competition, Kaohsiung, Taiwan

10/2010   CHAMPION AWARD (TEAM 1ST PLACE)
Humanoid Robot Explorer Competition International Group
Micro-mouse & Robot Contest, Southern Taiwan University, TaiNan, Taiwan

Travel Awards/Supports

Date	Event	Amount	Source
08/2017	ROMAN 2017	$1000.00 CAD	Faculty of Graduate Studies, University of Manitoba
08/2017	ROMAN 2017	$700.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba
08/2017	ROMAN 2017	$750.00 CAD	Graduate Student Association, University of Manitoba
03/2017	HRI 2017	$700.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba
10/2015	HAI 2015	$1000.00 CAD	Faculty of Graduate Studies, University of Manitoba
10/2015	HAI 2015	$700.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba

10/2015	HAI 2015	$705.92 CAD	Graduate Student Association, University of Manitoba
03/2015	HRI 2015	$650.00 CAD	Student Volunteering Awards
03/2015	HRI 2015	$750.00 CAD	Faculty of Graduate Studies, University of Manitoba
03/2015	HRI 2015	$700.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba
03/2015	HRI 2015	$392.69 CAD	Graduate Student Association, University of Manitoba
09/2014	HIS 2014	$700.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba
09/2014	HIS 2014	$650.00 CAD	Research Institute of Electrical Communication, Tohoku University
08/2013	ROMAN 2013	$450.00 CAD	Student Volunteering Awards
08/2013	ROMAN 2013	$700.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba
08/2013	ROMAN 2013	$325.00 CAD	Graduate Student Association, University of Manitoba
05/2013	GI 2013	$500.00 CAD	Dept. of Computer Science & Faculty of Science, University of Manitoba

EDUCATION

09/2015–04/2021   PH.D., UNIVERSITY OF MANITOBA, CANADA
Human-Robot Interaction, Department of Computer Science, advisor: James E. Young
"Novel egocentric robot teleoperation interfaces for search and rescue"
[thesis defense on April 23, 2021 & convocation on October 21, 2021]

09/2012–01/2015   M.SC., UNIVERSITY OF MANITOBA, CANADA
Human-Robot Interaction, Department of Computer Science, advisor: James E. Young
"A Simulated Robot versus a Real Robot: An Exploration of How Robot Embodiment Impacts People's Empathic Responses"
[thesis defense on January 14, 2015 & convocation on May 26, 2015]

09/2006–08/2012   B.C.SC. HONS., UNIVERSITY OF MANITOBA, CANADA
Department of Computer Science
specializations: Artificial Intelligence, Databases, Software Engineering
[program complete on August 18, 2012 & convocation on October 17, 2012]

LANGUAGES

Korean	native
English	fluent conversational, reading, and writing
Japanese	fluent conversational, and advanced reading and writing

PERSONAL

interest in developing programs, video games, Japanese animations, photography, building a plastic model, Rubik's cubes, puzzles, Sudoku, learning instruments (harmonica, guitar, piano)

Kyoto, Japan. (March 24, 2025)