Jessica Yi Fei Bo

CONTACT

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Website: https://jessica-bo.github.io/

EDUCATION

University of Toronto, Toronto, Canada
PhD in Computer Science, expected 2027
Topic: design and evaluation of human-AI interactions.
Advisor: Ashton Anderson *(Computational Social Science Lab)*

ETH Zurich, Zurich, Switzerland
MSc in Mechanical Engineering (Robotics), 2023
Thesis at **Massachusetts Institute of Technology** and **Harvard Medical School**: "Improving Deep Learning Model Generalizability with Adversarial Augmentations for Time-Series Physiological Data"
Advisors: Giovanni Traverso, Hen-Wei Huang *(Laboratory for Translational Engineering)*

University of British Columbia, Vancouver, BC, Canada
BASc In Mechanical Engineering (Biomedical), 2020
Thesis: "Wheelchair detection and state estimation using laser scanning sensors for mobile robots"
Advisor: Machiel Van der Loos *(CARIS Robotics Lab)*

RESEARCH EXPERIENCES

Google, Mountain View, CA, USA
Student Researcher for Google AR | Fall 2024

National University of Singapore, Singapore
Research Assistant in the Ubicomp Lab | Spring, Summer 2023

Massachusetts Institute of Technology, Cambridge, MA, USA
Visiting Thesis Student in the Traverso Lab | 2022

École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland
Summer@EPFL Research Assistant in the Visual Intelligence and Learning Laboratory | Summer 2021

Attentiv Medical, Vancouver, BC, Canada
Co-Founder and Research Lead | 2020–2022

***Awards**: James Dyson National Winner (Canada) and International Top 20, Microsoft Discover AI - Healthcare Winner, Medical Device Design Center Principal Award, UBC Innovation on Board Start-Up Competition (Runner Up).*

Lund University, Lund, Sweden
Research Assistant in the CERTEC Rehabilitation Engineering Group | Sumer 2017

CONFERENCE PUBLICATIONS

Bo J, Wan S, Anderson A (2024). "Evaluating Interventions for Appropriate Reliance on Large Language Models". *In submission.*

Bo J*, Mok L*, Anderson A (2024). "What LLMs Say vs. What They Do: Exploring Trust Gaps in Language Models". *In submission.*

Bo J*, Kumar H*, Liut M, Anderson A (2024). "Disclosures & Disclaimers: Investigating the Impact of Transparency Disclosures and Reliability Disclaimers on Learner-LLM Interactions". *AAAI HCOMP '24.*

Bo J, Hao P, Lim B (2024). "Incremental XAI: Memorable Understanding of AI with Incremental Explanations". *CHI '24*.

Bo J, Ta K, Nishida R, Yeh G, Tsang V, Bolton M, Ranger M, Walus K (2022). "ATTENTIV: Instrumented Peripheral Catheter for the Detection of Catheter Dislodgement in IV Infiltration". *IEEE EMBC '22*.

Agrawal D*, Lobsiger J*, **Bo J,** Kaufmann V, Armeni I (2022). "HoloLabel: Augmented Reality User-In-The-Loop Online Annotation Tool for As-Is Building Information". *EC3 '22*.

JOURNALS PUBLICATIONS

Huang HW*, Chai P*, Kerssemakers T, Imani A, Chen J, Lee S, Heim M, **Bo J**, Wentworth A, Fabian N, Jenkins J, Pettinary A, Ishida K, Li J, You S, Hayward AM, Traverso G (2024). "An Implantable System for Opioid Safety (iSOS)" *Device* DOI: 10.1016/j.device.2024.100517.

Vinker Y, Pajouheshgar E, **Bo J**, Bachmann R, Bermano AH, Cohen-Or D, Zamir A, Shamir A (2022). "CLIPasso: Semantically Aware Object Sketching". *ACM Transactions on Graphics* and Best Paper at *SIGGRAPH '22*.

ABSTRACTS AND POSTERS

Zhao Z*, **Bo J***, Singh K (2024). "Make it Happier! Discretizing and Amplifying Happiness in Animated Faces". *Graphics Interfaces '24*.

Bo J*, Mok L*, Tie J, Anderson A (2024). "Does GPT Distrust Algorithms? Evaluating Large Language Models for Algorithm Aversion". *CHI '24 HEAL Workshop* and *IC2S2 '24*.

Bo J, Huang HW, Chan A, Traverso G (2022). "Adversarial Masking for Pretraining ECG Data Improves Downstream Model Generalizability". Jointly accepted to *ML4H '22* and *TS4H* workshop at *NeurIPS '22*.

Bo J, Van der Loos M (2020). "Detection of Wheelchairs Using Laser Scanning Sensors for Mobile Robotics". Best Oral Presentation at *UBC MURC '20*.

SELECTED AWARDS

Walter C. Sumner Memorial Fellowship (*6700 CAD*), Walter C. Sumner Foundation, 2024
Ontario Graduate Scholarship (*5000 CAD x 3*), Government of Ontario, 2024
Schwartz Reisman Graduate Fellow *(7500 CAD),* Schwartz Reisman Institute, 2024.
Wolfond Fellow *(5000 CAD),* University of Toronto, 2024
Grace Hopper Scholar, Anita B, 2023
DeepMind Scholarship (*declined*), DeepMind, 2023
Gates Cambridge Scholarship - *Finalist*, Cambridge University, 2023
Graduate Research Grant *(3400 USD)*, IEEE Computational Intelligence Society, 2022
Master Thesis Grant *(10,500 CHF)*, Zeno Karl Schindler Foundation, 2022
Swiss-European Mobility Scholarship *(4500 CHF)*, Swiss-European Mobility Programme, 2022
Heyning-Roelli Mobility Grant *(1100 CHF),* Heyning-Roelli Foundation, 2021
Order of the White Rose Scholarship - *Finalist* , UBC Applied Science, 2020
Top 5% Academic Ranking, UBC Applied Science, 2020
Canada Graduate Scholarships-Master's (*17,500 CAD, declined*), NSERC Canada, 2020
Speak Out for Engineering *(300 GBP, 1st place)*, Institution of Mechanical Engineers, 2019
Women in Technology Scholarship *(10,000 CAD)*, Irving K Barber BC Scholarship Society, 2019
NSERC Experience Award *(4500 CAD)*, NSERC Canada, 2016
Dean's Honour List, University of British Columbia, all academic years

TEACHING EXPERIENCES

CSC311: Introduction to Machine Learning, University of Toronto
Teaching Assistant | Winter 2024

CSC148: Introduction to Computer Science, University of Toronto
Teaching Assistant | Fall 2023

INDUSTRY EXPERIENCES

Coursera, Toronto, ON, Canada (remote)
Software Engineering Intern | Summer 2020

Amazon, Vancouver, BC, Canada
Software Engineering Intern | Summer 2019

Blackberry QNX, Ottawa, ON, Canada
3D Vision R&D Intern | Winter 2018

ACADEMIC INVOLVEMENT

Conference Volunteer
UIST 2024, CHI 2024, NeurIPS 2022, ICED 2017

VOLUNTEERING & OUTREACH

Women in Science and Engineering , University of Toronto
Mentor for Undergraduate Students | 2024

Computer Science Graduate Society (CSGS), University of Toronto
Graduate Affairs Committee Member | 2023–ongoing

Department of Computer Science, University of Toronto
Graduate Admissions Triager | Fall 2023

Graduate Application Assistance Program (GAAP), University of Toronto
Mentor for Prospective Applicants | Fall 2023

Traverso Lab Machine Learning Corner, Massachusetts Institute of Technology
Reading Group Organizer | 2022

Open Roboethics Institute, Montreal, QC, Canada (remote)
AI Fairness Toolkit & Roboethics Competitions | 2021–ongoing

Connect-F Mentorship Program, University of British Columbia
STEM Mentor for High School Students | 2020–2021

UBC Biomedical Engineering Student Team, University of British Columbia
Research Team for Orthopedic Medical Device | 2016–2020

UBC Engineering Undergraduate Society & Women in Engineering, University of British Columbia
Graphic Designer | 2015–2018

UBC Orbit Satellite Design Student Team, University of British Columbia
Satellite Controls Team | 2015–2016

International Children's Advisory Network
Conference Committee Chair and Youth Council Member | 2015–2019

Kidscan Youth Advisory Council, BC Children's Hospital Research Institute
Pediatric Research Advisor | 2014–2019