CHRISTINA CHUNG

EDUCATION

University of Toronto, Hon. B.Sc Computer Science Specialist | 2013—2019 (expected)

- cGPA: 4.0/4.0 (93%)

RESEARCH

Dynamic Graphics Project Lab, University of Toronto | Jan. 2017—July. 2018

- Conducted a study to identify properties that influence the sense of virtual embodiment in VR.
  - Supervisors: Dr. Bruno Araujo, Prof. Daniel Wigdor
- Conducted a study assessing user performance of target selection in VR. Co-supervised an undergraduate research assistant involved in the project.
  - Supervisor: Dr. Aakar Gupta
- Conducted a qualitative study exploring mediated communication technology management.
  - Supervisor: Prof. Ishtiaque Ahmed
- Designed and developed use cases for a haptic feedback device in VR.
  - Supervisor: Dr. Seongkook Heo
- Assisted in running a user study on think-aloud usability testing.
  - Supervisor: PhD candidate Mingming Fan

Software Engineering Group, University of Toronto | Aug. 2017—Sept. 2017

- Lead a team of undergraduates in developing a human computation game to solve the intractable *n-way matching* problem.
  - Supervisors: Prof. Julia Rubin, Prof. Marsha Chechik
- Ran various user studies to investigate player motivation in human-computation games.
  - Supervisors: Prof. Julia Rubin, Prof. Marsha Chechik

Stanford Literary Lab, Stanford University | June 2016—Sept. 2017

- Analyzed a corpus of 19th century English novels to uncover patterns in color term use.
  - Supervisor: Dr. Irena Yamboliev

Social Perception & Cognition Lab, University of Toronto | Jan. 2015—Apr. 2015

- Administered social psychology experiments and wrote a face image alignment program in Python.
  - Supervisors: Dr. Konstantin Tshkay, Prof. Nicholas Rule

TEACHING EXPERIENCE

Teaching Assistant, University of Toronto | Sept. 2014—Dec. 2018

- CSC165 (Mathematical Expression & Reasoning): Fall 2014, Winter 2015.
- CSC263 (Data Structures & Analysis): Winter 2016.
- Undergraduate Help Centre | Fall 2018

TECHNICAL EXPERIENCE

Project Lead, Princess Margaret Cancer Research Centre | May 2016—Jan. 2017

- Supervised a team of students in developing a web application for the exploration of drug networks.

Software Engineering Intern, Modiface | May 2016—May 2017

- Developed an API for rendering makeup effects using WebGL and Three.js. Also took part in implementing and maintaining web interfaces.

Web Developer, University of Toronto | June 2015—Oct. 2015

- Co-developed the Department of Computer Science Undergraduate Project Portal, intended to match students with research positions at the University of Toronto.

Web Development Intern, ARTLOCAL APP | May 2015—July 2015

- Co-developed a web application for art galleries to advertise their exhibitions.

PUBLICATIONS

1. Seongkook Heo, **Christina Chung**, Geehyuk Lee, and Daniel Wigdor. 2018. Thor's Hammer: An Ungrounded Force Feedback Device Utilizing Propeller-Induced Propulsive Force. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI'18).
2. **Christina Chung**, Amit Kadan, Yueti Yang, Asako Matsuoka, Julia Rubin, and Marsha Chechik. 2017. The impact of visual load on performance in a human-computation game. In Proceedings of the 12th International Conference on the Foundations of Digital Games (FDG'17).
3. Nehme El-Hachem, Deena M.A. Gendoo, Laleh Soltan Ghoraie, Zhaleh Safikhani, Petr Smirnov, **Christina Chung**, Kenan Deng, Ailsa Fang, Erin Birkwood, Chantal Ho, Ruth Isserlin, Gary D. Bader, Anna Goldenberg, Benjamin Haibe-Kains. Integrative pharmacogenomics to infer large-scale drug taxonomy. Cancer Research. 2017.
4. **Christina Chung**, Asako Matsuoka, Yueti Yang, Julia Rubin, Marsha Chechik. 2016.Serious Games for NP-hard Problems: Challenges and Insights. In Proceedings of the International Conference on Software Engineering Workshop on Games and Software Engineering (GAS@ICSE'17). 2016.
5. **Christina Chung**, Julia Rubin, Marsha Chechik. N-way Model Merging Game. Review of Undergraduate Computer Science (RUCS). 2015.

PREPRINTS

1. C. Barson, D. Chandler, Q. Chen, **C. Chung**, A. Coccimiglio, S. La, L. Li, A. Linn, A. Lubiw, C. Lyle, S. Mahajan, G. Mierzwinski, S. Pratt, Y. Yoo, H. Zhang, K. Zhang. Some Counterexamples for Compatible Triangulations. arXiv preprint. 2016.

PRESENTATIONS

1. Color Analysis in 19th Century English Literature. Digital Humanities Network Conference. 2017.
2. Color Analysis in 19th Century English Literature. Trinity Undergraduate Research Conference. 2017.
3. MATCHMAKERS: Crowdsourcing Solutions to NP-hard Problems. IEEE MIT Undergraduate Research Technology Conference. 2016.

SERVICE

Founder & President, TURCS (Toronto Undergraduate Research in Computer Science) | Apr. 2017—pres

Co-President, Women in Computer Science | Apr. 2017–pres

External Reviewer, FSE (Foundations of Software Engineering) | 2017

External Reviewer, CHI (International Conference on Human Factors in Computing Systems) | 2017

Admissions Profile Evaluator, University of Toronto Trinity College | 2017
Program Committee, Canadian Undergraduate Computer Science Conference | Nov. 2016—July 2017
Vice-president, University of Toronto Web Development Club | Sept. 2016–Sept. 2017
Vice-president of Operations, Women in Computer Science | Jan. 2017–Apr. 2017
Social Media Executive, Healthy Minds UofT | Nov. 2016–Apr. 2017

AWARDS & HONORS

- University of Toronto Gordon Gressy Leadership Award (2019)
- University of Toronto Daniel Berlin Scholarship in Computer Science (2018) - $1700 CAD
- University of Toronto Tom Hull Scholarship in Computer Science (2018) - $1100 CAD
- University of Toronto Solar Panel Experiential Fund (2018) - $300 CAD
- NSERC Undergraduate Research Award (2015, 2017) - $6000 CAD x 2
- University of Toronto Ken Sevcik Bursary in Computer Science (2017) - $656 CAD
- Student Scholarship to Foundations of Digital Games Conference (2017) - $350 USD
- University of Toronto Betty Jean Boultbee Bursary (2017) - $4600 CAD
- CRA-E Outstanding Undergraduate Researcher Honorable Mention (2016)
- 1st Class Rank in Computer Science (w.r.t. cumulative average) (2016)
- University of Toronto Scholar (2016) - $1000 CAD
- ACM SIGSOFT Travel Award (2016) - $1000 USD
- University of Toronto Trinity College Meeting Travel Award (2016) - $300 CAD
- University of Toronto Provost's Travel Award (2016) - $300 CAD
- University of Toronto Mossie Waddington Kirkwood Scholarship (2016) - $1000 CAD
- University of Toronto Trenwith Computer Science Award (2015) - $1080 CAD
- David Squires Scholarship (2015) - $750 CAD
- University of Toronto Sodhexo Award (2015) - $500 CAD
- University of Toronto Chancellor's Scholarship (2014) - $500 CAD
- University of Toronto Outstanding Achievement in CSC148 (2014)
- University of Toronto President's Entrance Scholarship (2013) - $2000 CAD