Jacob J. Peoples Curriculum Vitæ

PhD Candidate, Queen's University

Education

2016/09 – present	**PhD Computing**, Queen's University	
2014/09 – 2016/08	**MSc Computing**, Queen's University	Promoted to PhD
2010/09 – 2014/04	**BScH Mathematical Physics**, Queen's University	GPA: 4.15/4.3

Publications

Journal Articles

J1 **J. J. Peoples**, G. Bisleri, and R. E. Ellis: Deformable multimodal registration for navigation in beating-heart cardiac surgery. *International Journal of Computer Assisted Radiology and Surgery*, 2019. (doi: 10.1007/s11548-019-01932-2[1])

Refereed Conference Papers

C1 **J. J. Peoples** and R. E. Ellis: A Generalizable Framework for Domain-Specific Nonrigid Registration: Application to Cardiac Ultrasound. In *Proceedings of the IEEE International Symposium on Biomedical Imaging (in press)*, 2020.

Refereed Abstracts

A2 M. S. Hefny, **J. J. Peoples**, M. L. Zec, D. R. Pichora, and R. E. Ellis: Topologically consistent triangulation for computer assisted surgery planning. In *CARS 2016, International Journal of Computer Assisted Surgery (Suppl 1)*, 2016.

A1 M. S. Hefny, **J. J. Peoples**, M. L. Zec, D. R. Pichora, and R. E. Ellis: Atlas-based scaphoid fixation planning. In *Proceedings of the Annual Meetings of CAOS-International*, 2016.

Preprints

P1 K. Cannon, C. Hanna, and **J. Peoples**: Likelihood-ratio ranking statistic for compact binary coalescence candidates with rate estimation. *arXiv preprint arXiv:1504.04632*, 2015.

Research Experience

2016/09 – present	**Graduate Researcher (PhD)**, Queen's University
2014/09 – 2016/08	**Graduate Researcher (Master's)**, Queen's University
2015/10 – 2016/01	**Special Research Student**, Nara Institute of Science and Technology
2013/05 – 2013/08	**Summer Undergraduate Researcher**, Canadian Institute for Theoretical Astrophysics

Teaching Experience

2018 Winter	**Instructor**, Discrete Mathematics for Computing I (CISC102), Queen's University
2017/03/28	**Guest Lecturer**, Continuous Coordinate Transformations (CISC881), Queen's University
2017/01/16	**Guest Lecturer**, Continuous Coordinate Transformations (CISC881), Queen's University
2017/01/14	**Guest Lecturer**, Continuous Coordinate Transformations (CISC881), Queen's University
2016 Fall	**Teaching Assistant**, Discrete Mathematics for Computing I (CISC102), Queen's University
2015 Fall	**Teaching Assistant**, Logic for Computing Science (CISC204), Queen's University
2014 Fall	**Teaching Assistant**, Discrete Mathematics for Computing I (CISC102), Queen's University

Awards and Honours

Research Scholarships

2017/09 – present	**NSERC PGS-D**, CAD 21,000 per annum
2016/09 – 2017/08	**Queen Elizabeth II Graduate Scholarship in Science and Technology**, CAD 15,000
2015/05 – 2016/04	**NSERC Alexander G. Bell CGS-M**, CAD 17,500
2015/11 – 2016/01	**JASSO Student Exchange Support Program for Short Term Study in Japan**
2013/05 – 2013/08	**NSERC Undergraduate Summer Research Award**

Undergraduate Awards

All awards listed below were awarded by Queen's University

[1] https://doi.org/10.1007/s11548-019-01932-2

2014 Medal in Mathematical Physics; Dean's Honour List
2013 Dean's Honour List; Nellie and Ralph Jeffery Award in Mathematics
2012 Dean's Honour List with Distinction; Susan Near Prize in Mathematics; Susan Near Prize in Physics; Dora and Beatrice Helmkay Scholarship in Mathematics
2011 Dean's Honour List with Distinction; William Coombs Baker Memorial Prize; Day Prize in Physics and Mathematics; Annie Bentley Lillie Prize in First Year Calculus; Principal's Scholarship
2010 Principal's Scholarship

Conference Presentations

Talks

CT2 **J. J. Peoples**, G. Bisleri, and R. E. Ellis: Deformable Multi-Modal Registration for Navigation in Beating-Heart Cardiac Surgery. Presented at *IPCAI 2019*, by J. J. Peoples, 2019/06/19 (video[2])

CT1 **J. J. Peoples**, G. Bisleri, and R. E. Ellis: Deformable Multi-Modal Registration for Navigation in Beating-Heart Cardiac Surgery. Presented at *IPCAI 2019*, by J. J. Peoples, 2019/06/18 (video[3])

Posters

CP1 **J. J. Peoples**, G. Bisleri, and R. E. Ellis: Deformable Multi-Modal Registration for Navigation in Beating-Heart Cardiac Surgery. Presented at *IPCAI 2019*, by J. J. Peoples, 2019/06/18 to 2019/06/19

[2] http://medialibrary.cars2019.org/mediatheque/media.aspx?mediaId=70854&channel=70776
[3] http://medialibrary.cars2019.org/mediatheque/media.aspx?mediaId=70821&channel=70776