

## Derek Ruths

Assistant Professor | School of Computer Science | McGill University  
514.975.3739 | [derek.ruths@mcgill.ca](mailto:derek.ruths@mcgill.ca) | <http://www.derekruths.com> | @derekruths

## Work Experience

Assistant Professor, McGill University: 2009 – Present

Ph.D. Student, Rice University; Houston, Texas: 2003 - 2009

Co-founder and CTO, Advanced Reality; Houston, Texas: 2000 - 2003

## Consulting

Co-founder and Chief Scientist, Macromeasures; Montreal, Quebec: 2014 – Present

Macromeasures is a spin-off from my research in online demographic inference. I co-founded it in Summer 2014 with McGill students who participated in this research. My role is primarily strategic and advisorial. Macromeasures is currently raising its first round of investment and preparing to release a beta of its core product in fall of 2014.

Data Scientist, Data Science Team, Facebook: 2014 – Present

*Extremely prestigious.* As a Facebook consultant, I have elevated access to Facebook data allowing me to conduct social informatics and social media research (both methodological and analytical in nature) on human behavior in the Facebook platform. Facebook flies me to the Palo Alto campus quarterly for week-long visits with the Data Science team.

Scientific Advisor, Silentale: 2013 – Present

I advise Silentale engineers on the design and development of their machine learning and analysis pipeline for social media analytics.

## Education

Rice University, Houston, Texas - Computer Science Ph.D. Program, Spring 2009

Thesis: Execution Strategies for Executable Biology

Advisor: Luay Nakhleh

Rice University, Houston, Texas - M.S. in Computer Science, Spring 2006

Thesis: Applications of Phylogenetic Incongruence for Detecting and Reconstructing Interspecific Recombination and Horizontal Gene Transfer.

Advisor: Luay Nakhleh

Rice University, Houston, Texas - B.S. in Computer Science, Spring 2003

## Research Interests

**Social informatics:** latent attribute inference in social media; political orientation; large-scale data modeling issues; models of group transformation

**Network science:** network structure and functional robustness; controllability; generative models of network growth

**Natural language processing:** topic modeling; language-specific author inference

## Funding

*Total Funding Raised: \$1.8 million (this includes funding shared with other co-investigators)*

2015 – 2016: CIHR Catalyst Ethics Grant, \$98,000

2014 – 2016: Public Safety Canada, \$80,000 (Team: McGill Network Dynamics Lab and Berkman Center)

2014 – 2016: Consumer Reports, \$200,000

\* 2014 – 2015: *Digging into Data Grant*, \$590,000 (Team: McGill, Stanford, ETS, University of Groningen)

\* 2014: SSHRC Connections Grant, \$14,000

\* 2014: Russell Sage Foundation, \$20,000 (Team: McGill, Northeastern)

2013 – 2015: Genome Canada Grant, \$250,000

2013 – 2015: Public Safety Canada (Federal Agency of Domestic Security), \$65,000

2012 – 2014: CFI, \$120,000

\* 2012 – 2014: NSF Sociology, \$132,000

\* 2012 – 2015: SSHRC Insight Grant, \$148,000

2010 – 2015: NSERC Discovery Grant, \$135,000

2010 – 2011: Recorded Future, \$7,000

2010 – 2012: FQRNT, \$60,000

## Peer-Reviewed Publications

*In computer science, conference publications are given equal or greater weight than most journal publications. This is particularly true of social informatics in which few top journals publish exclusively social informatics work. Exceptions are Science, Nature, and PNAS – all of which are considered the top venues in which for work to appear. Names of students and post-docs under my direct supervision have been underlined.*

1. D. Jurgens, T. Finethy, C. Armstrong, D. Ruths. Everyone's Invited: A New Paradigm for Evaluation on Non-transferable Datasets. ICWSM Workshop on Standards and Practices in Large-Scale Social Media Research. 2015.
2. D. Jurgens, T. Finethy, J. McCorriston, Y. T. Xu, D. Ruths. Geolocation Prediction in Twitter Using Social Networks: A Critical Analysis and Review of Current Practice. ICWSM, 2015.
3. D. Jurgens, J. McCorriston, D. Ruths. An Analysis of Exercising Behavior in Online Populations. ICWSM, 2015.
4. J. McCorriston, D. Jurgens, D. Ruths. Organizations are Users Too: Characterizing and Detecting the Presence of Organizations on Twitter. ICWSM, 2015.
5. S. Dimitrov, A. Piper, D. Ruths. Goodreads vs. Amazon: The Effect of Decoupling Book Reviewing and Book Selling. ICWSM, 2015.
6. D. Ruths and J. Pfeffer. Social media for large studies of behavior. Science, 2014.
7. D. Parekh, D. Ruths, and J. Ruths. Reachability-based Robustness of Network Controllability under Node and Edge Attacks. SITIS Workshop on Complex Networks and their Applications, 2014.
8. D. Jurgens, S. Dimitrov, and D. Ruths. Twitter users #CodeSwitch hashtags! #MoltoImportante #wow. EMNLP Code Switching Workshop, 2014.

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\* SSHRC and NSF Sociology funding is typically available only for social scientists. My ability to consistently obtain such funding underscores the deeply interdisciplinary nature of my work.

9. [H. M. Saleem](#), [Y. Xu](#), and D. Ruths. Novel Situational Information in Mass Emergencies: What does Twitter Provide? Conference on Humanitarian Technology, 2014.
10. [H.M. Saleem](#), [Y. Xu](#), and D. Ruths. Effects of Disaster Characteristics on Twitter event signatures. Conference on Humanitarian Technology, 2014.
11. J. Ruths and D. Ruths. Control Profiles of Complex Networks. Science, 2014.
12. [M. Ciot](#), M. Sonderegger, and D. Ruths. Gender Inference on Twitter in Non-English Contexts. Conference on Empirical Methods in Natural Language Processing, 2013.
13. [R. Cohen](#) and D. Ruths. Inference of political orientation on Twitter: It's not easy! International Conference on Weblogs and Social Media, 2013.
14. [M. Misiewicz](#), M. Dery, B. Foveau, J. Jodoin, D. Ruths, and A. C. LeBlanc. "Identification of a novel Endoplasmic Reticulum Stress Response Element regulated by XBP1." Journal of Biological Chemistry, 2013.
15. [W. Liu](#) and D. Ruths. What's in a name? Using first names as features for gender inference in Twitter. Symposium on Analyzing Microtext, 2013.
16. J. Ruths and D. Ruths. Robustness of Network Controllability under Edge Removal. CompleNet Workshop on Complex Networks, 2013.
17. [F. A. Zamal](#) and D. Ruths. On the contributions of topological features to transcriptional regulatory network robustness, BMC Bioinformatics 13:318, 2012.
18. V. Calcagno, E. Demoinet, K. Gollner, L. Guidi, D. Ruths, and C. de Mazancourt. Flows of research manuscripts among scientific journals reveal hidden submission patterns. Science 338(6110):1065-1069, 2012.
19. [W. Liu](#), [F. A. Zamal](#), and D. Ruths. Using social media to infer gender composition of commuter populations." When the City Meets the Citizen Workshop, International Conference on Weblogs and Social Media, 2012.
20. [F. A. Zamal](#), [W. Liu](#), and D. Ruths. Homophily and Latent Attribute Inference: Inferring Latent Attributes of Twitter Users from Neighbors. International Conference on Weblogs and Social Media, 2012.
21. D. Ruths and M. Maas. Novel Graph-theoretic Analysis of Roads in Late Antiquity. in [Highways, Byways, and Road Systems in the Pre-Modern World](#), 2012.
22. Y. Lu, M. Muller, D. Smith, B. Dutta, K. Komurov, S. Iadevaia, D. Ruths, J-T. Tseng, S. Yu, Q. Yu, L. Nakhleh, G. Balazsi, J. Donnelly, M. Schurdak, S. Morgan-Lappe, S. Fesik, P. T. Ram, and G. B. Mills. "Kinome siRNA-phosphoproteomic screen identifies networks regulating AKT signaling." Oncogene 30:4567-4577, 2011.
23. [M. Perreault](#) and D. Ruths. The effect of mobile platforms on Twitter content generation. International Conference on Weblogs and Social Media, 2011.
24. D. Ruths and F. A. Zamal. A method for the automated, reliable retrieval of publication-citation records. PLoS ONE 5(8):e12133, 2010.
25. D. Ruths and L. Nakhleh. Deriving predictive models of signaling network dynamics from semi-quantitative proteomic data. Conference on Computational Systems Bioinformatics (CSB), 2010.
26. T. Ruths, D. Ruths, and L. Nakhleh. GS<sup>2</sup>: An efficiently computable measure of GO-based similarity of gene sets. Bioinformatics, 25(9):1178-1184, 2009.
27. M Fete, H. van Bokloven, S. Clements, F. McKeon, D. R. Roop, M. I. Koster, C. Missero, L. D. Attardi, V. A. Lombillo, E. Ratoviski, M. Julapalli, D. Ruths, V. P. Sybert, E. C. Siegfried, A. F. Bree. Conference Report: International Research Symposium on Ankyloblepharon-Ectodermal Defects-Clift Lip and/or Palate (AEC) Syndrome. American Journal of Medical Genetics, 2008.
28. C. Than, D. Ruths, L. Nakhleh. PhyloNet: A Software Package for Analyzing and Reconstructing Reticulate Evolutionary Relationships. BMC Bioinformatics, 9:322, 2008.

29. D. Ruths, L. Nakhleh, P. T. Ram. Rapidly exploring structural and dynamic properties of signaling networks using PathwayOracle. *BMC Systems Biology*, 2:76, 2008.
30. D. Ruths, M. Muller, J. T. Tseng, L. Nakhleh, and P. T. Ram. The Signaling Petri Net-Based Simulator: A Non-Parametric Strategy for Characterizing the Dynamics of Cell-Specific Signaling Networks. *PLoS Computational Biology*, 4(2):e1000005, 2008.
31. C. Than, D. Ruths, H. Innan, L. Nakhleh. Confounding Factors in HGT Detection: Statistical Error, Coalescent Effects, and Multiple Solutions. *Journal of Computational Biology*, 14(4):517-535, 2007.
32. D. Ruths, J. T. Tseng, L. Nakhleh, P. T. Ram. De novo Signaling Pathway Predictions based on Protein-Protein Interaction, Targeted Therapy and Protein Microarray Analysis. *RECOMB Satellite Workshop on Systems Biology and Proteomics*, 2007.
33. C. Than, D. Ruths, H. Innan, and L. Nakhleh. Identifiability Issues in Phylogeny-based Detection of Horizontal Gene Transfer. *RECOMB Comparative Genomics Satellite Workshop*, 2006.
34. D. Ruths, L. Nakhleh, M. S. Iyengar, S. A. G. Reddy, and P. T. Ram. Graph-theoretic Hypothesis Generation in Biological Signaling Networks. *Journal of Computational Biology*. 13(9):1546-1557, 2006.
35. D. Ruths and L. Nakhleh. Techniques for Assessing Phylogenetic Branch Support: A Performance Study. *Proceedings of the 4th Asia Pacific Bioinformatics Conference*, 2006.
36. D. Ruths and L. Nakhleh. RECOMP: A Parsimony-based Method for Detecting Recombination. *Proceedings of the 4th Asia-Pacific Bioinformatics Conference*, 59-68, 2006.
37. L. Nakhleh, D. Ruths, and L.S. Wang. RIATA-HGT: A Fast and Accurate Heuristic for Reconstructing Horizontal Gene Transfer. *International Computing and Combinatorics Conference*, 2005.
38. D. Ruths and L. Nakhleh. Recombination and Phylogeny: Effects and Detection. *International Journal on Bioinformatics Research and Applications*, 1(2):202-212, 2005.
39. J. M. Tour, W. L Van Zandt, C. P. Husband, S. M. Husband, E. C. Libby, D. Ruths, K. K. Young, L. S. Wilson, P. D. Franzon, and D. P. Nackashi. Nanocell Logic Gates for Molecular Computing. *IEEE Transactions on Nanotechnology*. 1(2):100-109, 2002.
40. D. Ruths, E. Chen, and L. Ellis. Arbor3D: An Interactive Environment for Examining Phylogenetic and Taxonomic Trees in Multiple Dimensions. *Bioinformatics*. 16(11): 1003-1009. 2000.
41. D. Ruths, E. Chen, and L. Ellis. A Virtual Genome Environment for the Visualization and Navigation of Genomic Data. *International Immersive Projection Technology Workshop*, 2000.

## Book Chapters

C. Bronk and D. Ruths. "Quantitative Modeling of Violent Group Behavior using Open-Source Intelligence." Editor K. Desouza and E. Johnston. In [Policy Informatics](#), MIT Press, Forthcoming.

L. Nakhleh, D. Ruths, and H. Innan. "Gene Trees, Species Trees, and Species Networks." Editors R. Guerra and D. Allison. In [Meta-analysis and Combining Information in Genetics](#). 2005.

## Articles

D. Ruths. "On the Need for Military Botnets." *Armed Forces Journal*, October 2008.

## Conference Presentations

*Conference presentations are an important part of maximizing the impact of research. Here I report all conference presentations given on my research at both paper (PR) and abstract-only events (AO). Only listed is the presenter.*

1. D. Parekh. "Reachability-based Robustness of Network Controllability under Node and Edge Attacks." SITIS Workshop on Complex Networks and their Applications, 2014.
2. D. Jurgens. "Twitter Users #CodeSwitch Hashtags! #MoltoImportante #wow." EMNLP Workshop on Computational Approaches to Code Switching, 2014. (PR)

3. D. Ruths. "Novel Situational Information in Mass Emergencies: What does Twitter Provide?" Conference on Humanitarian Technology, 2014. (PR)
4. D. Ruths. "Effects of Disaster Characteristics on Twitter event signatures." Conference on Humanitarian Technology, 2014. (PR)
5. D. Ruths. "Political Orientation on Twitter: Polarization and Echo Chambers." Workshop on Information in Networks, 2013. (AO)
6. D. Ruths. "Inference of political orientation on Twitter: It's not easy!" International Conference on Weblogs and Social Media, 2013. (PR)
7. W. Liu. "What's in a name? Using first names as features for gender inference in Twitter." Symposium on Analyzing Microtext, 2013. (PR)
8. D. Ruths. "A First-look at Patterns of Giving among Individual Campaign Contributors." Political Networks Conference, Bloomington, Indiana, 26-29 June 2012. (AO)
9. D. Ruths. "Vocations and Campaign Contributions." Political Networks Conference, Boulder, Colorado, 15-16 June 2012. (AO)
10. D. Ruths. "Political Orientation on Twitter." Political Networks Conference, Boulder, Colorado, 15-16 June 2012. (AO)
11. D. Ruths. "Using homophily to boost latent attribute detection algorithm performance." Sunbelt Conference on Social Network Analysis, Redondo Beach, 14 - 17 March 2012. (AO)
12. D. Ruths. "The Political Coloring of Corporate Boards." Workshop on Information in Networks, 30 September 2011. (AO)
13. D. Ruths. "Do Corporate Board Interlocks Shape Political Campaign Contribution Behavior?" Political Networks Conference, 18 June 2011. (AO)
14. D. Ruths. "Network Generation Mechanisms and the Twitter Online Network." Sunbelt Conference on Social Network Analysis, Trento Italy, June 29 - July 4, 2010. (AO)
15. D. Ruths. "Analysis of Associational Networks Embedded in Terrorist Events." Networks in Political Science Conference, Harvard, June 13-14, 2008. (AO)
16. D. Ruths. "Novel Graph-theoretic Analysis of Roads in Late Antiquity." Conference on Highways and Byways, Brown University, April 4-6, 2008. (PR)
17. D. Ruths. "De novo Signaling Pathway Predictions based on Protein-Protein Interaction, Targeted Therapy and Protein Microarray Analysis." RECOMB Satellite Workshop on Systems Biology and Proteomics, 2007. (PR)
18. D. Ruths. "Techniques for Assessing Phylogenetic Branch Support: A Performance Study." 4th Asia Pacific Bioinformatics Conference (APBC2006), 2006. (PR)
19. D. Ruths. "RECOMP: A Parsimony-based Method for Detecting Recombination." 4th Asia-Pacific Bioinformatics Conference, (APBC2006), 2006. (PR)
20. D. Ruths. "RIATA-HGT: A Fast and Accurate Heuristic for Reconstructing Horizontal Gene Transfer." 11th International Computing and Combinatorics Conference (LNCS 3595), 2005. (PR)

## Invited Talks & Panels

*Invited talks and panels are both important contributions to the community and also are recognition of my impact and past contributions to and engagement in important research areas.*

1. "Online user identity." Summer School in Cognitive Sciences, Universite du Quebec (Montreal), 17 July 2014.
2. "The challenges and opportunities in latent attribute inference." ACL Workshop on Social Dynamics and Personal Attributes in Social Media, 27 June 2014.

3. "Dissecting the control structures of complex networks." NetSci Workshop on Controlling Complex Networks, 2 June 2014.
4. "The origins of control of complex networks." Research on Algorithms and Incentives in Networks, Stanford University, 29 January 2014.
5. "Control Profiles of Complex Networks." Computer Science Department, Carnegie Mellon University, 24 January 2014.
6. "The Promises and Pitfalls of Demographic Inference on Social Media." MIT Media Lab, 10 January 2014.
7. "The Promises and Pitfalls of Demographic Inference on Social Media." Computer Science Department, Northeastern University, 9 January 2014.
8. "Interpreting large textual and graphical corpora using crowd sourcing." Ephemera: Current and Future Workshop, Rice University, 7 December 2013.
9. "The Promises and Pitfalls of Demographic Inference on Social Media." Microsoft Research, Seattle, 22 October 2013.
10. "Distinguishing and Estimating Mechanisms of Social Network Formation." Dartmouth Interdisciplinary Network Research Group, Dartmouth University, 11 October 2013.
11. "The Promises and Pitfalls of Demographic Inference on Social Media." Columbia Computer Science Department, Columbia University, 3 October 2013.
12. "The origins of robustness in biochemical networks." Workshop on Evolution and Transcriptional Gene Regulation, Bellairs Research Center, 22 April 2013.
13. "The role of computational network analysis in the humanities." Workshop on Digitalization in Humanities, Rice University, 5 April 2013.
14. "Recent advances in semantic analysis of social media." Public Safety Canada's Kanishka Conference, Ottawa, 9 November 2012.
15. "The future of demographic inference in Twitter." Computer Science Department, Simon-Frasier University, 26 October 2012.
16. "The role of social media in crisis response." Canadian Risk and Hazards Network Annual Conference, Vancouver, 25 October 2012.
17. "Anticipating the use of social media for organized crime." Public Safety Canada's Symposium on Organized Crime, Vancouver, 23 October 2012.
18. "Mapping urban populations using Twitter." NSF Specialist Meeting on Mapping Ideas: Discovering Information Landscapes, 1-2 August 2012.
19. "Network science and history." NEH Seminar on Communication, Empire, and the City of Rome, Rome, 2 July 2012.
20. "Social media and social mobilization." Public Safety Canada's Cross-Cultural Security Round Table Meeting, Niagara Falls, 9-10 June 2012.
21. "Introducing the Zen Network Library for Python." Sage Days 23, 9 May 2012.
22. "Computational tools for hypothesis generation with the Afghanistan COIN Strategy Map." IMA Workshop on Network Links: Connecting Social, Communication, and Biological Network Analysis. 27 February - 2 March 2012.
23. "Homophily and Political Orientation on Twitter." US Department of Defense Strategic Multilayer Assessment Briefing, 14 February 2012.
24. "A Model of Social Network Formation." University of Toronto Computer Science Department, 7 November 2011.

25. "Social processes and obesity." Canadian Obesity Network Workshop, 28 April 2011.
26. "Models of signaling networks from semi-quantitative data." Barbados Cancer Workshop, 3 February 2011.
27. "Why structure matters." TEDxMcGill, 20 November 2010.
28. "Modeling biochemical network dynamics using qualitative experimental data." MIT Bioinformatics Seminar, 20 November 2009.
29. "Perspectives on modeling biochemical network dynamics." Merck Frosst Pharmaceutical, 17 November 2009.
30. "Applications of social network models to understanding childhood obesity." Montreal Brain-to-Society Childhood Obesity Workshop, 12 November 2009.
31. "Models of biochemical network dynamics from qualitative experimental data." Microsoft Research Cambridge, 10 March 2009.
32. "Models of biochemical network dynamics from qualitative experimental data." School of Computer Science, McGill University, 24 February 2009.
33. "Models of biochemical network dynamics from qualitative experimental data." Lane Center for Computational Biology, Carnegie Mellon University, 27 January 2009.
34. "Predicting insurgent group structure and behavior." Central Intelligence Agency, 10 September 2008.
35. "The Signaling Petri Net: An Executable Model of Signaling Network Dynamics." Brown University, Invited Talk, 4 April 2008.
36. "PathwayOracle: Software for Elucidating the Systems Function of Signaling Networks." Bertinoro Computational Biology Meeting, Italy, 12-15 May 2007.
37. "Contextual Collaboration." Collaborate West Conference. Anaheim, California. 4 November 2002.
38. "Applications for Contextual Collaboration." International Cadence User Group Conference. San Jose, California. 18 September 2002.
39. "Data-centric Collaboration." InterDoc Conference. Quebec, Canada. 5 July 2002.
40. "Contextual Collaboration." Collaborate East Conference. Boston, Massachusetts. 25 June 2002.
41. "Making Applications Collaborative." TACCAS Conference. South Padre, Texas. 20 May 2002.

## Technical Tutorials

*Technical tutorials include conference tutorials and workshops as well as independent course I have developed and taught. Because these can have significant impact on researcher and practitioner understanding and use of cutting-edge techniques (including those I have developed), I consider these important aspects of service.*

1. D. Ruths. An Introduction to the Large-Scale Analysis of Social Media Data. Political Networks Conference, 2013.
2. D. Ruths. An Introduction to the Large-Scale Analysis of Twitter Data. Sunbelt Social Networks Conference, 2013.
3. D. Ruths. Analyzing Massive Social Network Data Sets without a Cluster. International Conference on Weblogs and Social Media, 2012. (21 attendees)
4. D. Ruths. Twitter as a platform for social and political informatics research. Full day tutorial/workshop, Computational Social Science Workshop, Harvard University. 30 May - 1 June 2012. (73 attendees)
5. D. Ruths and M. Perreault. Introduction to Python Workshop #2. Organized through MontrealPython, held at McGill. 23 February 2012. (38 attendees)

6. D. Ruths and M. Perreault. Introduction to Python Workshop #1. Organized through MontrealPython, held at McGill. 25 January 2012. (47 attendees)
7. D. Ruths and M. Perreault. Python Street Fighting Workshop. 20 October 2011. (53 attendees)
8. D. Ruths and M. Perreault. Introduction to Python Workshop. 23 March 2011. (74 attendees)

## Community Building

1. 2015.06: Co-chair for ICCS Workshop on Paradigms for Control in Social Systems ([http://networkdynamics.org/events/iccs2015\\_control/](http://networkdynamics.org/events/iccs2015_control/))
2. 2014.05: General Chair for Political Networks Conference (<http://polnet2014.cs.mcgill.ca>)
3. 2013-2014: Served as Data Chair for ICWSM 2014
4. 2012-2013: Served as Data Chair for ICWSM 2013
5. 2012.05: Co-organized 2012 Workshop on Computational Social Science (joint with Harvard and Northeastern)
6. 2012.04: Co-organized 2012 Control in Biology Workshop at Bellairs Institute, Barbados.
7. 2011-2012: Served as Data Chair for ICWSM 2012

## Teaching

COMP 189: Computers and Society - this is a class I developed for non-majors in which students learn about the technological underpinnings of our civilization, in an effort to form and defend informed opinions about important topics that affect their lives and are being or will be debated in the near future.

COMP 767: Graduate Seminar in Network Science - this class leads Computer Science students through the major computational and analytical challenges in the emerging field of network science.

COMP 364: Computer Tools for Life Sciences

## Mentoring

### Postdoctoral Fellows

1. *Raza-Ali Kazmi (2015 – present)*
2. *David Jurgens (2014 – present)*

### PhD Students

1. *Edward Newell (2013 – present)*
2. *Faiyaz Al Zamal (2009 – 2015)*

### Masters Students

1. *Stefan Dimitrov (2014 – present)*
2. *Hardik Vala (2014 – present)*
3. *Haji Mohammad Saleem (2013 – present)*
4. *Deven Parekh (2013 – present)*
5. Guy Lifshitz (2012 – 2014), Data Scientist @ Silentale



6. Syed Ahmed (2012 – 2014), PhD student @ McGill University
7. Raviv Cohen (2011 – 2013), Security Consultant @ iSec
8. Michael Misiewicz (2011 – 2013), Data Scientist @ AppNexus
9. Mathieu Perreault (2010 – 2012), Software Developer @ Google

**Undergraduate Students**

1. *James Mccorriston, Computer Science and Biology (2012 – present)*
2. *Morgane Ciot, Computer Science (2012 – present)*
3. *Tyler Finethy, Computer Science and Physics (2012 – present)*
4. *Evan Jacques, Computer Science (2014 – present)*
5. *Caitrin Armstrong, Computer Science (2014 – present)*
6. Cara Vitale, Communications (2014 – present)
7. Yishi Xu, Computer Science (2013 – 2014)
8. Yi Tian Xu, Computer Science (2014)
9. Vasu Nadella, Computer Science (2013 – 2014)
10. Wendy Liu, Computer Science (2011 – 2014)
11. Ben Deverett, Computer Science and Neuroscience (2011 – 2013)
12. Angela King, Mathematics (2012)
13. Ionut Georgian Ciobanu, Computer Engineering (2012 – 2013)