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Education:

Carnegie Mellon University	Computer Science	Ph.D.	1994
Carnegie Mellon University	Computer Science	M.Sc.	1991
Tel-Aviv University, Israel	Mathematics and Physics	B.Sc.	1985

Professional Positions and Honors:

2005-	Professor of Language Technologies, Machine Learning, Computer Science and Computational Biology, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA
2010-	Visiting Adjunct Professor of Computational and Systems Biology, School of Medicine, University of Pittsburgh
2017-	Interim Director, Machine Learning Minor undergraduate degree program
2017-	Interim Co-Director (computer science), M.S. in Machine Learning program
2017	Joel and Ruth Spira Teaching Excellence Award
2001-2005	Tenured Associate Professor., School of Computer Science, Carnegie Mellon University
2001-2003	Co-Director (computer science), Graduate Program in Computational and Statistical Learning, School of Computer Science, Carnegie Mellon University
2003	Visiting Associate Professor, Computer Science Department, Hong-Kong University
1999-2001	Associate Professor, School of Computer Science, Carnegie Mellon University
1997-1999	Co-Director (computer science), inter-collegiate Computational Finance graduate program, Carnegie Mellon University
1997-1999	Assistant Professor, School of Computer Science, Carnegie Mellon University
1994-1997	Research Computer Scientist, Computer Science Department, Carnegie Mellon University
1992	Allen Newell Medal for Research Excellence

Current Interests:

- Forecasting Epidemics
 - National advocate for the science and technology of epidemic forecasting
 - Top scoring group in forecasting challenges organized by U.S. Government
 - Named “*Most Accurate Forecaster*” by CDC in 2016
- Spoken Dialog Technologies to Aid Socioeconomic Development
 - Deployed multilingual information systems in Pakistan, India and Guinea
 - Content provided by Punjab government (Pakistan), private jobs agency (India), and World Health Organization (Guinea, Ebola)
 - Systems spread virally and reached over 180,000 users
 - CHI *Best Paper* award; Covered widely in the popular press
- Machine Learning for Social Good
- Machine Learning Pedagogy
 - Improving data numeracy in all segments of society

Teaching:

- Created the “Language and Statistics” course and grew it from a 10 student LTI-only PhD course to a 78 student course in 2016, attended by students from all over the School of Computer Science and outside it. In a survey of LTI graduates a few years ago, “Language and Statistics” was voted the most impactful course on their post-CMU career.
- Have been teaching a Masters-level “Machine Learning” course for over 20 years, most recently to 244 students (the maximum allowed in our largest classroom, with 200+ on the waitlist).
- FCEs (student evaluations) consistently and significantly exceed university, school and departments’ norms.

PhD Students and Post-docs: (* co-advised)

- Amanda Coston* (MLD and Heinz, Machine Learning and Public Policy)
- Logan Brooks (CSD, Epi-forecasting)
- David C. Farrow, “Modeling the Past, Present, and Future of Influenza”, PhD Thesis (2016), Dept. of Computational Biology, School of Computer Science, Carnegie Mellon University.
- Agha Ali Raza, “Viral Entertainment as a Vehicle for Disseminating Core Development Services”, PhD Thesis (2014), Language Technologies Institute, School of Computer Science, Carnegie Mellon University.
- Chuang Wu, “Phenotype Inference from Genotype in RNA Viruses”, PhD Thesis (2014), Dept. of Computational Biology, School of Computer Science, Carnegie Mellon University.
- Jahanzeb Sherwani*, “Speech Interfaces for Information Access by Low Literate Users”, PhD Thesis (2009), Computer Science Department, School of Computer Science, Carnegie Mellon University.
- Yong Lu*, “A Computational Framework for the Analysis of Multi-Species Microarray Data”, PhD Thesis (2008), Computer Science Department, School of Computer Science, Carnegie Mellon University.
- Dan Bohus*, “Error Awareness and Recovery in Conversational Spoken Language Interfaces”, PhD Thesis (2007), Computer Science Department, School of Computer Science, Carnegie Mellon University.
- Stefanie Tomko, “Improving User Interaction with Spoken Dialog Systems via Shaping”, PhD Thesis (2006), Language Technologies Institute, School of Computer Science, Carnegie Mellon University.
- Xiaojin (Jerry) Zhu*, “Semi-Supervised Learning with Graphs”, PhD Thesis (2005), Language Technologies Institute, School of Computer Science, Carnegie Mellon University.
- Lin Chase, “Error-responsive Feedback Mechanisms for Speech Recognizers”, PhD Thesis (1997), Robotics Institute, School of Computer Science, Carnegie Mellon University.
- Andy Walsh, post-doctoral fellow, computational virology, 2005—2008
- Xiaojun Wang, post-doctoral fellow, machine learning, 2000
- Stanley F. Chen, post- doctoral fellow, statistical language modeling, 1997-2000
- Pierre DuPont, post- doctoral fellow, statistical language modeling, 1996-1997

Publications: See http://www.cs.cmu.edu/~roni/publication_list.html