Carla Brodley

Professor and Dean, Khoury College of Computer Sciences
Northeastern University

Awards and Honors and Year Received

- NSF-CAREER Award, 1998-2002
- Alumni Award: Outstanding Educator, Department of Computer Science, the University of Massachusetts at Amherst, 2010
- AAAI Fellow, 2014 "`For significant contributions to machine learning and its application to science, engineering and medicine, and to increasing the participation of underrepresented groups in computer science."
- 2016 NCWIT Harrold and Notkin Research and Graduate Mentoring Award Winner.
- ACM Fellow, 2016 "For applications of machine learning and for increasing participation of women in computer science."
- AAAI Fellow, 2014 "For significant contributions to machine learning and its application to science, engineering and medicine, and to increasing the participation of underrepresented groups in computer science."
- Executive Director, Center for Inclusive Computing.

Involvement in CRA Activities

- I served as the AAAI liason on the CRA board of directors from 2008-2012, during which I also served on the organizing committee for Snowbird, 2012.
- I served on the board of CRA-W from 2002 to 2013 including serving as co-chair (with Kathleen Fisher) from 2008 to 2011.
- In addition, I served on the Taulbee survey committee from 2009-2014, helping make the change from reporting data via ranking to reporting data via public/private, size, and city/not-city.
- I served on the CRA rankings subcommittee, which created CS-Metrics.org.
- I was re-elected to the CRA board for 2017-2020 and hope to continue serving. During that term I worked on the rankings committee, chaired the Habermann award committee, and
- I am currently co-chairing the Career Mentoring workshop in 2020 with Dan Grossman.
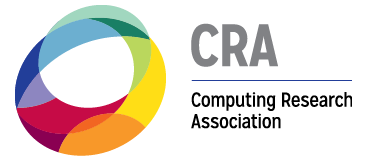
Other Relevant Experience

- Member of the 2004-2005 Defense Science Study Group, DARPA
- Elected Member, AAAI Executive Council, 2008-2011
- Elected Member, International Machine Learning Society Board, 2011-present

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- Elected Member-at-large of the Section Committee (Information, Computing, and Communication), AAAS
- Chair of the department of Computer Science, Tufts University (2010-2013) and Dean of the College of Computer and Information Science, Northeastern University (2014-present)
- Member, NSF CISE Advisory Board,
- Executive Director, Center for Inclusive Computing.

Research Interests

Applied machine learning, unsupervised learning, predictive medicine, anomaly detection, human-in-the-loop machine learning, diversity in CS.

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CRA
Computing Research Association

Personal Statement

I remain committed to increasing diversity in CS and will help CRA efforts in this vein. Having served as both a department chair and dean of a college of CS, I believe a critical turning point for our field is to help research department chairs make the case to their administration for becoming a college, which increases flexibility and resources. I would like to work on making this a national effort.

Bio

Carla E. Brodley is the Dean of the Khoury College of Computer Sciences and as the Executive Director of the Center for Inclusive Computing. Prior to joining Northeastern, she was a professor of the Department of Computer Science and the Clinical and Translational Science Institute at Tufts University (2004-2014). Before joining Tufts she was on the faculty of the School of Electrical Engineering at Purdue University (1994-2004).

A Fellow of the Association of Computing Machinery (ACM) and the Association for the Advancement of Artificial Intelligence (AAAI), Dean Brodley's interdisciplinary machine learning research led to advances not only in computer and information science, but in many other areas including remote sensing, neuroscience, digital libraries, astrophysics, content-based image retrieval of medical images, computational biology, chemistry, evidence-based medicine, and predictive medicine.

Dean Brodley's numerous leadership positions in computer science as well as her chosen research fields of machine learning and data mining include serving as program co-chair of ICML, co-chair of AAAI, and serving as associate editor of the Journal of AI Research, and the Journal of Machine Learning Research. She served on the Defense Science Study Group, the board of the International Machine Learning Society, the AAAI Council and DARPA's Information Science and Technology (ISAT) board. Currently, Dean Brodley serves on the Computer Research Association Board of Direcrtors, on the NSF Cise Advisory Board, and as a member-at-large of the section on Information, Computing, and Communication of AAAS.