

Reboot!

**Organizer: the CRA's Computing Community Consortium
Ann Schwartz, Director**

Panelists: Sujata Banerjee (VMware), Nadya Bliss (Arizona State University), Bill Gropp (University of Illinois Urbana-Champaign), and Dan Lopresti (Lehigh University)

Moderator: Liz Bradley (University of Colorado Boulder)



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The Computing Community Consortium (CCC)

The mission of the Computing Research Association's Computing Community Consortium (CCC) is **to enable the pursuit of innovative, high-impact computing research that aligns with pressing national and global challenges.**

Sujata Banerjee - VMWare

Nadya Bliss - Arizona State University

Elizabeth Bradley - University of Colorado, Boulder

Randal Burns - Johns Hopkins University

Tom Conte - Georgia Tech

David Danks - University of California, San Diego

Maria Gini - University of Minnesota

William Gropp - University of Illinois

Urbana-Champaign

David Jensen - University of Massachusetts, Amherst

Sven Koenig - University of Southern California

Chandra Krintz - University of California, Santa

Barbara

Brian LaMacchia - Microsoft Research

Daniel Lopresti - Lehigh University

Rada Mihalcea - University of Michigan

Melanie Moses - University of New Mexico

Raj Rajaraman - Northeastern University

William Regli - University of Maryland

Ann Schwartz - Computing Research Association

Katie Siek - Indiana University

Mona Singh - Princeton University

Ufuk Topcu - University of Texas at Austin

Matthew Turk - Toyota Technical Institute at

Chicago

Pam Wisniewski - University of Central Florida

Holly Yanco - University of Massachusetts, Lowell



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Topics for Tonight's Discussions

Preparing for a Neural Programming Revolution

AI Customized to Human Norms

Format: pairwise idea exchanges

Possible outcomes:

- Instantaneous reactions
- What have we missed?



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**Find a partner
(preferably not at your table)**



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Preparing for a Neural Programming Revolution

Neural generative pre-training (GPT) language models have shown promise in applications to programming, raising the question: Can programming be automated?

Questions to discuss:

- Is this a terrible idea?
- What are the possible affordances?
- What will be the hardest part in getting it right?



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Find a different partner!



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AI Customized to Human Norms

Making AI technology adhere to human norms is challenging!

Questions to discuss:

- What if the norms implemented by the creators of an AI-based technology do not match those of the users or others who are impacted by the technology?
- What is the hardest part of determining the norms to which AI should be customized?
 - In particular, how should we resolve conflicts between the norms of different groups?



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Popcorn sharing



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THANK YOU

Continue the conversation (*about these topics or anything else that you think CCC should be doing*) by sharing your ideas:

- cra.org/ccc/rebootmural
- On a sticky
- At the CCC table
- Or this way



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