COMMUNITY & CIVIC ENGAGEMENT

► polytechnic.purdue.edu/research

This cross-cutting research area will highlight the impact and role of users' and stakeholders' engagement in sociotechnical systems. By establishing relationships with local partners and focusing working relationships with local community organizations, we aim to empower individuals to identify and solve local and regional issues, engage with diverse communities at multiple scales, and increase civic participation in our research in the short and long term.

School of Aviation and Transportation Technology

Department of Technology Leadership & Innovation

Department of Computer and Information Technology

Community & Civic Engagement

School of Engineering Technology

Department of Computer Graphics Technology

School of Construction Management Technology

Foci include: user research, facilitation & evaluation, ongoing engagement.

FACULTY CHAMPIONS

Austin Toombs
assistant professor of computer graphics technology

Colin Gray
assistant professor of computer graphics technology

GET INVOLVED: contact Colin at gray42@purdue.edu or Austin at toombsa@purdue.edu.

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INVOLVED FACULTY EXPERTISE:
» Data Visualization & Analytics
» Design
» Social Factors
» STEM Education Research
» User Experience

CURRENT PROJECTS

TECHNOLOGY & FITNESS

Alka Harriger, professor of computer and information technology, and Brad Harriger, professor of mechanical engineering technology, partnered with other faculty in the creation of professional development programs in science, technology, engineering and math (STEM) for middle school teachers and new research into the development of computational thinking among middle school students across three learning contexts.

ANALYZING COMMUNITIES

Sabine Brunswicker, associate professor of teaching, learning and innovation, and her research team examine the structure and culture of open source communities to help them be more productive. The team analyzes millions of lines of code to find collaborative patterns, examines the stability of underlying code over time, models the evolution of a group's code, and compares how its technology compares to other products.

RECOGNIZING NEW OCCUPATIONS

Professionalization, the process of achieving widespread recognition and higher socioeconomic status for emerging occupations, used to take decades. Yubo Kou, a postdoctoral research associate in computer graphics technology, is researching how social media and online communities are changing the speed with which professionalization takes place.