

Bryan Minor

PhD Electrical Engineering

Associate in Computer Science
Washington State University
School of Electrical Engineering and Computer Science
Pullman, WA
(360) 771-8017
bminor@eecs.wsu.edu

EDUCATION

Doctor of Philosophy in Electrical and Computer Engineering August 2015
Washington State University, Pullman, WA
Thesis Topic: Prediction of Inhabitant Activities in Smart Environments
Advisors: Dr. Diane J. Cook and Dr. Thomas R. Fischer

Bachelor of Science in Electrical Engineering Fall 2010
Washington State University, Pullman, WA
Emphasis on signal processing and communications

RESEARCH INTERESTS

Activity Forecasting, Smart Environments, Mobile Apps, User Experience, Signal Processing

PUBLICATIONS

Bryan Minor, Janardhan Rao Doppa, and Diane J. Cook. Data-Driven Activity Prediction: Algorithms, Evaluation Methodology, and Applications. In *Proceedings of the 2015 ACM SIGKDD Conference on Knowledge Discovery and Data Mining*. August 2015.

Bryan Minor and Diane J. Cook. Regression tree classification for activity prediction in smart homes. In *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication (UbiComp '14 Adjunct)*. Seattle, WA, 441-450, 2014.

S. Szewczyk, K. Dwan, B. Minor, B. Swedlove, and D. Cook. Annotating smart environment sensor data for activity learning. *Technology and Health Care, special issue on Smart Environments: Technology to support health care*. Vol. 17. 161-169, 2009.

AWARDS AND FELLOWSHIPS

IGERT Fellowship, WSU Smart Environments IGERT Spring 2011-Spring 2013
Multi-disciplinary training program with an emphasis on health-assistive technology

PROFESSIONAL EXPERIENCE

Associate in Computer Science, Washington State University Spring 2016-Present
Research faculty conducting research into activity forecasting and recognition
Developing and maintaining software systems to develop and support research initiatives

Research Assistant, Washington State University Fall 2013-Spring 2016
Performing research in the WSU CASAS research center for smart home development
Developing activity forecasting algorithms and mobile prompting applications

Software Engineer, SumTech Business Solutions Spring 2013-Fall 2014
Develop and implement web applications to support businesses in a variety of industries

Research Intern, St. Luke's Rehabilitation Center Summer 2013
Installed and analyzed systems to assist with patient rehabilitation

Engineering Intern, Advanced Hardware Architectures (AHA) Corporation Summer 2010
Design, implementation, and verification of data compression and communications hardware

Undergraduate Researcher, WSU CASAS Smart Home Lab Summers 2008 and 2009
Research and development of smart home visualization tools and sensor hardware

TECHNICAL SKILLS

Research Methods and Analysis

Experimental design, software/hardware implementation, results analysis, and publication

Software Development

Java, C#, Objective-C, C++, Python, and other languages

Mobile Application Development

Design and development of iOS and Android mobile applications for research and other projects

Web Application Development

Development of websites, web APIs, and visualization tools using a variety of web technologies and platforms

Database and Server Management

Manage database and web server applications on Linux and Windows platforms