Kvle Feuz

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EDUCATION	
Washington State University, College of Engineering, Pullman PhD in Computer Science Dissertation Title: <i>Heterogeneous Transfer Learning for Activity I</i> Committee: Diane Cook (Chair), Larry Holder, Matthew Taylor an GPA: 4.00/4.00	n, WA May 2014 <i>Recognition</i> nd Qiang Yang*
*Hong Kong University of Science and Technology	
Utah State University, College of Science, Logan UT Master of Science in Computer Science Thesis Title: <i>Pedestrian Leadership and Egress Assistance Sime</i> Committee: Vicki Allan (Chair), Daniel Bryce and Curtis Dyreson GPA: 4.00/4.00	December 2011 ulation Environment
Utah State University, College of Science, Logan UT Bachelor of Science in Computer Science with a Bioinformatics GPA: 3.96/4.00; <i>Summa Cum Laude</i>	December 2010 Emphasis
EXPERIENCE	
 Assistant Professor Weber State University, School of Computing, Ogden, UT Program coordinator for the Network Management Technolo Teach undergraduate and graduate classes in Computer Sci Research interests include Machine Learning, Cybersecurity 	July 2014 – Present ogy degree ience and Networking and User Experience
 Research Assistant Washington State University, EECS Department, Pullman, WA Created novel machine-learning and transfer-learning techni Implemented change-point detection algorithms to detect ac Developed visualization tools to display relevant information Worked with multidisciplinary group through the NSF IGERT 	August 2011 – August 2014 iques for activity recognition tivity transitions in real-time to potential caregivers program.
 Center For Cyber Defenders Intern Sandia National Laboratories, Albuquerque, NM Worked in a team environment to develop a security testbed Applied reinforcement learning techniques to achieve realisti Implemented other heuristic matching rules to generate reali 	Summer 2013 I and training framework ic network traffic generation istic network traffic
 Research Assistant Utah State University, Computer Science Department, Logan, U Improved pedestrian egress simulation by incorporating grout Applied reinforcement learning as a novel technique to moder building Incorporated heuristic route selection to create more realistic 	August 2010 – December 2011 IT up formation el pedestrian knowledge of a c pedestrian simulation models
Lecturer Utah State University	June 2010 – August 2010

Lecturer Utah State UniversityIntroduction to Computer Science CS 1410

Teaching Assistant Utah State University

Integrated Physical Science USU 1360

Undergraduate Researcher

Utah State University, Computer Science Department, Logan, UT

Developed online interactive learning modules to reinforce concepts of computer science

Curriculum Vitae

- Created lesson plans and activities utilizing the interactive learning modules
- Used the interactive learning modules in a local high school programming class

Research Experience for Undergraduates (REU) Participant

Utah State University, Computer Science Department, Logan, UT

- Implemented a network switch which monitors traffic in a distributed fashion and works in conjunction with BotHunter to detect network threats
- Cooperated in a team to protect network security from cyber assaults
- Created a python wrapper library for the ipfix protocol using fixbuf and SWIG

Web Programmer

Utah State University, Applied Economics, Logan UT

- Developed the cow-calf risk analysis tool
- Created other decision support tools for cattle market analysis

AWARDS

Outstanding Paper 2015 Emerald Literati Network Awards for Excellence 2015 2011 - 2014WSU NSF Integrative Graduate Education and Research Traineeship Fellow USU College of Science Seely-Hinkley Scholarship 2010 **USU** Computer Science Scholarship 2009 - 2010 USU Academic Dean's Scholarship 2008 - 2010**BYU Academic Full-Tuition Scholarship** 2004 - 2005, 2007 - 2008 Roosevelt Public Power Scholarship 2004 Eagle Scout 2001

PUBLICATIONS

Journal Articles

- K. Robertson, C. Rosasco, K. Feuz, M. Schmitter-Edgecombe, and D. Cook Prompting technologies: a comparison of time-based and context-aware transition-based promoting. Technology and Health Care. 23 (6), 745-756 2015
- K.D Feuz, D.J Cook, C. Rosasco, and K. Robertson. Automated Detection of Activity Transitions for Prompting. IEEE Human-Machine Systems 45 (5), 575-585 2015
- **K.D Feuz** and D.J Cook. Transfer Learning across Feature-Rich Heterogeneous Feature Spaces via Feature-Space Remapping (FSR). ACM Transactions on Intelligent Systems and Technology. 6(1):1-27 2015
- K.D Feuz and D.J Cook. Heterogeneous Transfer Learning for Activity Recognition using Heuristic Search Techniques. International Journal of Pervasive Computing and Communications 10.4:393-418 2014
- D.J Cook, K.D Feuz and N.C Krishnan Transfer learning for activity recognition: A survey. Knowledge and Information Systems 36:537-556 2013

Peer-reviewed Conferences and Workshops

Kyle Feuz

November 2008 – August 2010

Summer 2008

Summer 2009

Curriculum Vitae

Kyle Feuz

- **K.D. Feuz** and D. Cook. Modeling Skewed Class Distributions by Reshaping the Concept Space. *Proceedings of the 31st AAAI Conference on Artificial Intelligence*. February 2017
- K. Robertson, C. Rosasco, **K.D. Feuz**, D. Cook, and M. Schmitter-Edgecombe. C-66 Prompting Technologies: Is Prompting during Activity Transition More Effective than Time-Based Prompting? *Archives of Clinical Neuropsychology* 29.6:598-598 2014
- **K.D. Feuz** and D. Cook. Real-time annotation tool (RAT). *Proceedings of the AAAI Workshop on Activity Context-Aware System Architectures*, 2013.
- A.S. Crandall, L. Zulas, **K.D. Feuz**, N.C. Krishnan, and D.J. Cook. Visualizing your ward: Bringing smart home data to caregivers. In *Emerging Technologies for Healthcare* and Aging Workshop in the Proceedings of Computer Human Interaction, 2012.
- K.D. Feuz and V. Allan. Group formation and knowledge sharing in pedestrian egress simulation. In 5th International Conference on Agents and Artificial Intelligence, SciTePress, February 2013, Barcelona, Spain.
- K.D. Feuz and V. Allan. Simulating knowledge and information in pedestrian egress. In 4th International Conference on Agents and Artificial Intelligence, pages 246-253. SciTePress, February 2012, Villamoura, Algarve, Portugal.
- K.D. Feuz and V. Allan. Simulating pedestrian route selection with imperfect knowledge. In 4th International Conference on Agents and Artificial Intelligence, pages 146-153. SciTePress, February 2012, Villamoura, Algarve, Portugal.

OPEN SOURCE CONTRIBUTIONS

Processing IDE Linux .deb build process Bug fixes and enhancements for networking libraries Bug fixes and enhancements for use on linux systems	April 2014-present
WEKA plugins Intra-class Clustering library Macro and Micro Performance Metrics library	June 2016-present
Real-time Annotation Tool (RAT) Creator and Maintainer	June 2013 – Present
Wireshark Contributor Kismet Server/Drone Protocol	Spring 2012
Multi-agent Simulator Of Neighborhoods (MASON) Bug Fix	2011