

WEI HUANG

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Website: <https://explorer-wei.github.io>

EDUCATION

Virginia Tech, Blacksburg, VA

Aug. 2012 – May. 2015

M.S. in Computer Science and Applications

(Major GPA: 3.83/4.0; with full scholarship)

Tsinghua University, Beijing, China

Aug. 2008 – Jul. 2012

Bachelor, Electronic Information Science and Technology

(Major GPA: 91/100; acceptance rate < 0.1%)

WORK EXPERIENCES

Amazon Corporate LLC, Seattle, WA (*Software Development Engineer*)

Aug. 2017 – present

- Working on authentication and authorization services which support the world-class Amazon customer service
- Tech leader of our Attribute-based Access Control (ABAC) service, working with more than 20 external companies
- Main contributor to several key services: Global Identity, Global Access Portal, User Group Workflow etc.

Institute for Creativity, Arts, and Technology, Virginia Tech (*Research Assistant*)

Apr. 2013 – Aug. 2017

- Conducted spectral clustering, correlation analysis, and causality test to reveal the emotional effects of music
- Designed signal processing algorithms for event detection and feature extraction using MATLAB
- Manipulated and processed ~10GB raw data from user studies using MongoDB and Java

Amazon Corporate LLC, Seattle, WA (*SDE Intern*)

May. 2016 – Aug. 2016

- Designed and implemented a new leasing library for EC2 Instance Health Metrics Publisher (IHMP) service
- Implemented a "switch stage" to support the EC2 IHMP service update in large distributed system

Amazon Corporate LLC, Seattle, WA (*SDE Intern*)

May. 2015 – Aug. 2015

- Re-designed and implemented Concession Audit Service in NAWS to reduce the latency from 2 days to 2 minutes
- Collected massive data using SQL and built model to reduce the false alarms for fraud detection by over 50%

PUBLICATION

Wei Huang and Benjamin Knapp, "An exploratory study of population differences based on massive database of physiological responses to music," Affective Computing and Intelligent Interaction (ACII), 2017 International Conference on (pp. 524-530). IEEE.

D. Saha, B. Bortz, **W. Huang**, T. Martin, R. B. Knapp, "Affect-aware Intelligent Environment Using Musical Cues as an Emotion Learning Framework", Intelligent Environments (IE), 2016 12th International Conference on (pp. 178-181). IEEE.

Wei Huang, Brennon Bortz, and Benjamin Knapp, "Exploring the Causal Relationships between Musical Features and Physiological Indicators of Emotion" Affective Computing and Intelligent Interaction (ACII), 2015 International Conference on (pp. 560-566). IEEE.

PATENT (CHINA)

Music Interactive Entertainment Installation

Inventors: Yan Guan, Ziqi Hu, **Wei Huang**, China Patent # 2012202405403, Issued Date: Nov. 14, 2012