**Hyun Joo (Rosalyn) Shin**

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## EDUCATION

**Johns Hopkins University**
M.S.E Computer Science *August 2021 - Present*
**Purdue University–West Lafayette**
B.S. Computer Science *May 2019*

## RESEARCH INTERESTS

- Real-world Application of AI and ML to Provide Better Solutions to Multidisciplinary Fields
- AI's Potential Vulnerabilities and Ways to Avoid Risks
- Impact and Influence of AI on People's Life at Home and Work
- Policy-making Practices (both Governments and Corporates) and Consumer Behavior for AI Applications
- Guidance for AI and ML Applications to Practitioners

## TECHNICAL SKILLS

- **Proficient:** Python, R, Scikit-Learn, Pandas, PyTorch, TensorFlow
- **Exposure:** Java, C/C++, JavaScript, Node.js, jQuery, PHP, AWS, HTML5, CSS3, SQL, PostgreSQL, NoSQL

## BOOK CHAPTERS

Song, Q. C., **Shin, H. J.**, Tracy, M. M., Hernandez, I., & Liu, M. Q. (forthcoming: 2023). Machine learning algorithms and measurement. *Technology and Measurement around the Globe*. Washington D. C., APA books.

Song, Q. C., **Shin, H. J.**, Upadhya, N., & Teo, T. (forthcoming: 2023). Technology and measurement in Asia. *Technology and Measurement around the Globe*. Washington D. C., APA books.

## CONFERENCE PRESENTATIONS

Tang, C., **Shin, H. J.**, Barve, A. D., & Song, Q. C. (June, 2020). Using ensemble machine learning to improve assessment in personnel selection. *Poster presentation at the 35th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual Conference*.

## PROFESSIONAL EXPERIENCE

**Recruitment and Selection Lab, Purdue University**
Lab Manager Jan 2019 – June 2021

- Engineered various Machine Learning algorithms for personality prediction using Python and R, leading to increased model performance and prediction accuracy by at least 40%.
- Demonstrated the use of recruitment algorithms decreases diversity by 94% and increases average job performance by 240% using Monte-Carlo simulation R package.
- Published 2 scholarly articles and 1 conference paper to provide practical guidelines when using machine learning by organizing discovered results from conducted studies.

**Cognitive Control Lab, Purdue University**
Research Assistant July 2019 – June 2021

- Migrated 5 Python-written offline experiments to online experiments using JavaScript, jQuery, PHP, resulting in 2000+ data collection.
- Automated counter-balancing experiment sequences by developing executable Python script saving 50+ hours of manual work monthly.
- Provided technical assistance to the experiment conductors across Python, R, JavaScript, PHP, SQL saving 250+ hours and $4,500+ of costs.

Last Updated: 09/20/2021