

# Isaiah Persson

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## OBJECTIVE

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Ph.D. student in Educational Psychology with a specialization in Research, Evaluation, Measurement and Statistics (REMS). Currently seeking opportunities to gain professional experience in research, psychometrics, quantitative modeling and statistical computing.

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## SKILLS

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Research Design & Methodology	SQL & Relational Database Design	Program Evaluation
Psychometrics	SPSS	E-Learning Evaluation
Item Response Theory (IRT)	Git ( <i>command line and Github</i> )	User Experience & Interface (UX/UI)
Classical Test Theory (CTT)	Shell scripting ( <i>Bash</i> )	Human Computer Interaction (HCI)
Generalizability Theory (G Theory)	Data Visualization ( <i>ggplot2, Seaborn, Matplotlib, Tableau, etc.</i> )	Information Systems (IS) Theory
Factor Analysis (PCA, EFA, and CFA)	Natural Language Processing (NLP)	Foreign Languages (Mandarin, French)
Structural Equation Modeling (SEM)	Machine Learning ( <i>K-nearest neighbors, Naïve Bayes, logistic regression, random forests, etc.</i> )	Public Policy Analysis
Multilevel Modeling	Deep Learning ( <i>RNN, LSTM, CNN, etc.</i> )	Government Advocacy & Lobbying
Multivariate Statistics	Social Network Analysis (SNA)	International Affairs & Geopolitics
Multiple Regression and ANOVA	Explainable Artificial Intelligence (XAI)	Public Speaking & Presentation
Python ( <i>NumPy, pandas, SciPy, NLTK, statsmodels, sci-kit learn, semPlot, FactorAnalyzer, Keras, TensorFlow</i> )	Artificial Intelligence Fairness & Ethics	Collaborative Group Facilitation
R ( <i>Tidyverse, lavaan, psych, gtheory</i> )		Event Planning and Management
		Copy Writing & Editing
		MS Office Suite

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## EDUCATION

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Ph.D. student, Educational Psychology <i>Oklahoma State University (ongoing)</i>	Master of Public Policy (M.P.P.) <i>Peking University (2014)</i>	B.A. in Economics (minor in Chinese) <i>University of Tulsa (2011)</i>
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## EMPLOYMENT EXPERIENCE

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Graduate Research Associate • Oklahoma State University • 8/15/2020 – present  
*Assists graduate advisor with researching statistical packages in python and writing manuscripts for academic journals.*

Government Sector Specialist • Tulsa Health Department ([www.tulsa-health.org](http://www.tulsa-health.org)) • 2016 –2020  
*Provided policy analysis, advocacy and lobbying on public health issues. Spearheaded strategic partnerships between local municipalities and community organizations to advance policies and practices that support public health.*

Emergency Medical Technician • Emergency Medical Service Authority (EMSA) of Tulsa • 10/27/2014 – 7/31/2015  
*Provided emergency medical care to patients in a pre-hospital environment.*

Head Marketing Editor • TUI China ([www.tui.cn](http://www.tui.cn)) • 10/15/2012 – 11/15/2013  
*Oversaw the company's English-language marketing materials. Drafted and edited a diverse array of communications, ranging from marketing brochures to detailed business proposals.*

Research Intern • INCLUDED ([www.included.org](http://www.included.org)) • 3/20/2012 – 6/26/2012  
*Independently oversaw development of the Migrant Resource Network; designed a research database for migrant issues; collected research; wrote issue briefs; coordinated with external researchers; developed a strategy and planned events for building a cooperative network with other migrant-focused organizations.*

Advocacy Assistant (internship) • Human rights organization in Washington D.C. • 7/1/2010 – 8/15/2010  
*Assisted the Director of Advocacy by researching issues, networking, and meeting with government agencies and lawmakers to advocate for public policies that support human rights in East Asia. (Organization's name is undisclosed due to security concerns.)*

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## LEADERSHIP AND VOLUNTEER EXPERIENCE

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Lead Data Analyst • Urban Data Pioneers • 9/5/2019 – 11/21/2019

*Served as a lead data analyst for the SNAP Utilization project during Cohort 6 of the Urban Data Pioneers at the City of Tulsa (CoT). Performed analysis of variance (ANOVA), measuring the effect of different state-level policies across the USA on SNAP utilization.*

Project Manager / Lead Data Analyst • Urban Data Pioneers • 5/7/2019 – 7/5/2019

*Served as the project manager and lead data analyst for the HR Job Analysis project during Cohort 5 of the Urban Data Pioneers at the City of Tulsa. Used natural language processing to extract job features from 600+ CoT job descriptions; compared performance of machine learning models (KNN, Naïve Bayes and LSTM) in classifying employee profiles with job descriptions.*

Data Analyst • Urban Data Pioneers • 9/6/2018 – 11/29/2018

*Analyzed the effect of different zoning regulations on sales tax generation across the City of Tulsa.*

Chairman • Accessible Transportation Coalition • 6/1/2016 – Present

*Leads the Accessible Transportation Coalition in advocacy, forming organizational partnerships and planning community events.*

Researcher • Starfish Project ([www.starfish-project.com](http://www.starfish-project.com)) • 5/1/2012 – 12/25/2013

*Collaborated with staff members of Starfish Project to design and perform a study that explored the backgrounds and needs of the organization's target population. Reported research findings in MPP thesis at Peking University.*

Team Leader • INCLUDED ([www.included.org](http://www.included.org)) • 10/16/2011 – 12/24/2011

*Led weekly English-language program at migrant school in Beijing.*

President • TU Global Network • Spring 2011

*Organized meetings and events aimed at fostering cross-cultural awareness and promoting international business within the student body at the University of Tulsa.*

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## AWARDS

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Undergraduate Research Scholar (*University of Tulsa Undergraduate Research Challenge, 2009*)

Presidential Scholar (*University of Tulsa, 2007 – 2011*)

National Merit Finalist (*National Merit Scholarship Corporation, 2007*)