

Earl Hur

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PROFESSIONAL SUMMARY

- Ability in writing code with R and Python. (Learning process in ML/DL algorithms)
- Talented in creating interactive statistical graphs using R and Shinyapp.
- Engaged statistics instructor for students with no statistics background for 2 years.
- Successfully organized campus visits from various industries to build connections with statistics graduate students collaborating with HR department and statisticians in the field.

TECHNICAL / COMPUTING SKILLS

Data Analytics: R/Rstudio (Shiny App), SAS, SPSS, STATA, JMP

Programming: Python Visual Basic, C#

Miscellaneous: LaTeX, GitHub, MS Word, MS Excel, MS PowerPoint, MS Outlook

EDUCATION

Doctor of Philosophy (Co-major Ph.D) (Expected) May 2022
Statistics & Human Computer Interaction
Iowa State University (ISU), Ames, IA

Master of Science (M.S.) December 2019
Statistics,
ISU, Ames, IA

Bachelor of Science (B.S.) May 2016
Statistics
ISU, Ames, IA

EXPERIENCE

Introduction to Statistics Instructor Graduate Assistant August 2020 - present
Department of Statistics, ISU, Ames, IA

- Develop course and lab materials as a lead instructor (Summer 2021).
- Provide weekly lab session for students to conduct statistical analysis using real world datasets.
- Comment and give feedbacks to students' lab and homework assignment.

Data Science Intern May 2020 - August 2020
Corteva Agriscience, Indianapolis, IN

- Investigated Bayesian method to estimate toxicological point of departure from apical end point data for various molecules.
- Compared the performances of Bayesian approach with frequentist approach from the U.S. Environmental Protection Agency to derive point of departure.

Business Statistics Instructor Graduate Assistant August 2018 - May 2020
Department of Statistics, ISU, Ames, IA

- Collaborated and discuss class materials for 600 business undergraduate students.
- Provided weekly lectures about foundational ideas and concepts of descriptive and inferential statistics to the students with no background knowledge in statistics.
- Lead a weekly review session to provide additional resources to the students.
- Implemented visualization for students to understand the concepts better using simulation study.

Data Scientist Research Assistant**May 2016 - May 2018****Department of Statistics, ISU, Ames, IA**

- Generated network data and improved a graph model using Monte Carlo approximation using R.
- Developed theoretical models to identify the pattern in discrete variables using Markov Chain Monte Carlo method using R.
- Collected and managed data of the number of subsidiaries from annual reports of Dow Jones Companies. Visualized the location of all the subsidiaries using R-Shiny. (<https://earlhurststatistics.shinyapps.io/DowJones/>)

Student Advisor Assistant**May 2014 - May 2016****International Students and Scholars Office, ISU, Ames, IA**

- Guided international students and scholars to file tax documents to IRS.
- Analyzed complicated immigration documents and assisted to complete I-9 Employment Eligibility Verification form.
- Wrote and promoted a blog about the events and issues from international students' organizations. (<https://issoiastate.wordpress.com/>).

High School Mathematics Lecturer**March 2013 - November 2013****Ja-Sung Math Institute, Seoul, Korea**

- Designed and managed the teaching program.
- Lectured mathematics to 30+ middle school and high school students to prepare for college entrance exam.

Supply Officer**February 2009 - December 2010****Republic of Korea Army, Gangwon Province, Korea**

- Operated an infantry unit as a squad commander.
- Investigated and supervised military equipment from the guidance of the first sergeant.
- Placed orders and distributed supplies to the whole company.

HONORS & AWARDS

- Excellence in Teaching Award, Fall 2020
- Iowa State University Dean's List, Spring 2014 - Spring 2016
- Osher Reentry Scholarship, Iowa State University, Spring 2016-Spring 2016
- Transfer Achievement Scholarship, Iowa State University, Fall 2014 - Spring 2016
- Scholarship with honors in academic records, Sejong University, December 2011

LEADERSHIP & SERVICE**Vice President****August 2019 – August 2020****Iowa STAT-ers, Iowa State University, Ames, Iowa**

- Build connections between companies and graduate students in the department of statistics.
- Organize and facilitate campus visits and recruiting seminars from various companies.

Secretary**August 2018 – August 2019****Iowa STAT-ers, Iowa State University, Ames, Iowa**

- Kept record of meetings and helped maintaining STAT-ers website. (<https://www.stuorg.iastate.edu/site/stat-ers>)
- Managed the memberships of STAT-ers.

CONFERENCE PRESENTATION

- **“Random Graph Model for Agriculture Innovation Ecosystem”**
Decision Science Institute Conference, November 22, 2020
- **“Modeling the Occurrence of Terrorist Attacks”**
2019 Joint Statistics Meetings: Denver, CO, July 30, 2019
- **“Understanding the Timing of Terrorist Attacks as a Function of Resource Availability”**
International Studies Association - Midwest: St. Louis, MO, November 18, 2017