

# Joseph C. Knittel

ASPIRING ACTUARY · DATA SCIENCE ENTHUSIAST

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## Actuarial Exams

**SOA Exam P** PASSED (03/2015)

**SOA Exam IFM** PASSED (07/2020)

**SOA Exam STAM** PASSED (02/2021)

**SOA Exam FM** PASSED (04/2019)

**SOA Exam SRM** PASSED (09/2020)

**SOA Exam PA** SITTING (06/2021)

## Education

### University of Pittsburgh

M.S. COMPUTER SCIENCE (DISCONTINUED)

- Specialization in artificial intelligence, with a focus on machine learning

*Pittsburgh, PA*

08/2013 – 03/2014

### Pennsylvania State University

B.S. MATHEMATICS (COMPLETED)

- Coursework spanning a broad range of fields, with applications in the natural and social sciences

*University Park, PA*

08/2005 – 05/2009

## Work Experience

### Concierge

BROWN HARRIS STEVENS

- Tended to the unique requests of each of the building's tenants and guests with the utmost care and courteousness
- Liaised with in-house employees and contractors in order to optimize operations within the building
- Upheld the building's strict security policy by monitoring closely the happenings on and nearby the premises

*40 Bond St., New York, NY*

10/2018 – 06/2020

### Mathematics Tutor

SELF-EMPLOYED

- Helped nearly 100 students of all ages and backgrounds better understand topics from algebra to complex analysis
- Created student-specific quizzes, exams, and assorted study materials to aid in clients' preparation for course assessments
- Identified flaws in students' approach to knowledge acquisition and devised new strategies to be put into action

*New York, NY*

09/2014 – 05/2019

### Volunteer Teacher

UNITED STATES PEACE CORPS

- Developed mathematics, physical science, and information science curricula and taught the material to over 300 students
- Regularly attended events hosted in the village and worked with community leaders to facilitate cross-cultural exchange
- Spearheaded the construction of a computer lab at the school, and, in doing so, brought internet access to the community

*Ohalushu, Namibia, Africa*

08/2010 – 12/2012

### Research Assistant

LABORATORY FOR COGNITION AND ACTION

- Led a team of four undergraduates in carrying out an experiment about "Risk-Taking in Perceptual-Motor Control"
- Implemented, with slight guidance from the lab director, MATLAB code for the application used during the experiment
- Submitted an article summarizing the findings of the experiment to the journal *Psychonomic Bulletin and Review*

*University Park, PA*

09/2007 – 11/2009

### Computer Technician (Intern)

HSBC CORP.

- Fixed a diverse array of software and hardware issues confronted by over 120 employees throughout the office
- Took part in planning and executing a site-wide operating system conversion from Windows XP to Windows Vista
- Wrote MS-DOS batch files to automate code execution and run diagnostics on users' machines

*Bridgewater, NJ*

05/2007 – 09/2007

## Software

**Data Science** R (*tidyverse*, *tidymodels*, *shiny*, *rmd*), Python (*scikit-learn*, *fastai*, *ipynb*), MS Excel (*pivot tables*), VBA, SQL, MATLAB

**Web Development** HTML5, CSS3, JavaScript

**General Productivity** MS Word, MS PowerPoint, Google Docs, Markdown, Adobe Photoshop,  $\LaTeX$ , GitHub