Joseph C. **Knittel**

ASPIRING ACTUARY · DATA SCIENCE ENTHUSIAST

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Actuarial Exams

SOA Exam P PASSED (03/2015)

SOA Exam FM PASSED (04/2019)

SOA Exam IFM PASSED (07/2020)

SOA Exam SRM PASSED (09/2020)

SOA Exam STAM PASSED (02/2021)

SOA Exam LTAM SITTING (10/2021)

Education

University of Pittsburgh   *Pittsburgh, PA*

M.S. COMPUTER SCIENCE (DISCONTINUED)   *08/2013 – 03/2014*

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

Pennsylvania State University   *University Park, PA*

B.S. MATHEMATICS (COMPLETED)   *08/2005 – 05/2009*

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

Work Experience

Concierge   *40 Bond St., New York, NY*

BROWN HARRIS STEVENS   *10/2018 – 06/2020*

- 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

Mathematics Tutor   *New York, NY*

SELF-EMPLOYED   *09/2014 – 05/2019*

- 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

Volunteer Teacher   *Ohalushu, Namibia, Africa*

UNITED STATES PEACE CORPS   *08/2010 – 12/2012*

- 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

Research Assistant   *University Park, PA*

LABORATORY FOR COGNITION AND ACTION   *09/2007 – 11/2009*

- 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 (first author) summarizing the findings of the experiment to the journal *Psychonomic Bulletin and Review*

Computer Technician (Intern)   *Bridgewater, NJ*

HSBC CORP.   *05/2007 – 09/2007*

- 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

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