

Brian J. Spiering, Ph.D.

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WORK EXPERIENCE

The Data Incubator

Data Engineering Instructor

April 2023 – Present

- Design and deliver online courses for data engineering fellowship program.
- Provide data engineering training for enterprise clients.

Freelance / Independent

Principal Consultant

Jan 2023 – April 2023

- Develop end-to-end AI/ML/NLP solutions to deliver provable proven business value.
- Example projects: Architected and implemented an automated system to source companies for VC funding using transformers and large language models (LLM).

Metis

Data Scientist Instructor

Nov 2021 – Dec 2022

- Instructed remote data science bootcamp, teaching primarily artificial intelligence (AI), machine learning (ML), and natural language processing (NLP), taught synchronously and asynchronously.
- Developed curriculum for remote instruction. Created a new business analytics (BA) course.
- Mentored students one-on-one in job searching and technical interviewing.

FourthBrain

Machine Learning Engineer (MLE) Instructor

July 2021 – Nov 2021

- Lead instructor for a single cohort of a remote bootcamp teaching machine learning engineering (MLE) and deep learning (DL).
- Revised curriculum to be more aligned with in-demand industry skills.

University of San Francisco

Data Science / Computer Science Faculty

Jan 2018 – June 2021

- Taught undergraduate and graduate courses in Computer Science and Data Science. Focus on teaching applied, cutting-edge technologies in Machine Learning (ML), Artificial Intelligence (AI), Natural Language Processing (NLP), Computer Science, and Business Communication.
- Taught online and hybrid due to COVID-19. Restructure the curriculum to promote activity learning in a distance learning environment.
- Mentored student internships with industry partners. Helped students connect the dots between classroom knowledge and business use cases.
- Career Services lead for ~90 Masters in Data Science students (Fall 2018-June 2021). Prepared students for jobs in technology companies, including technical interviewing and negotiating.
- Director of undergraduate peer-to-peer Computer Science tutoring center (Spring 2018). Leveraged the power of peer instruction to scale learning.

Bradfield Computer Science School

Deep Learning Instructor

June 2018 – July 2019

- Instructed small groups (8-15) of software engineers in deep learning.
- Developed novel, applied deep learning curriculum in TensorFlow/Keras.

IndieBio

Mentor for Startup Incubator

July 2018 – Aug 2019

- Advised early-stage startups on strategy, infrastructure, and products related to artificial intelligence, machine learning, and data.

Indigo Project

Machine Learning Engineer

May 2017 – Dec 2017

- Founding technical member of an artificial intelligence (AI) stealth-mode startup.
- Architected and coded a distributed deep learning (DL) system to automatically correct grammar.

Galvanize / University of New Haven

Data Science Faculty

June 2015 – Dec 2017

- Taught graduate courses in Data Science. Focus on teaching applied, cutting-edge technologies in deep learning (DL), machine learning (ML), and natural language processing (NLP).
- Supervised student internships with industry partners.
- Won "Teacher of the Year" (2017) for the Masters of Data Science program.

LiveCareer (now BOLD)

Data Scientist

Aug 2014 – June 2015

- As the first Data Scientist at LiveCareer, defined the vision for data science. Built and led a team to realize that vision.
- Company-wide technical lead on data analysis, applied deep learning (DL), search engineering / information retrieval, architecting a Big Data platform, and creating data-driven back-end services.

COMMUNITY SERVICE

- Currently ranked #3 all-time contributors on Data Science Stack Exchange.
- Technical reviewer for O'Reilly Media. Review machine learning books for correctness.
- Volunteer Lead for Delta Analytics (2018-2022), a non-profit teaching machine learning internationally. Developed and delivered a data science course. Then developed an instructor training program. Mentor other volunteers in software engineering best practices.

EDUCATION

University of California, Santa Barbara

2009

Ph.D. in Cognitive Neuroscience

San Francisco State University

2001

B.A. in Psychology and Speech Communication

TECHNICAL SKILLS

Languages & Technologies: Python, Scala, R, SQL, TensorFlow / Keras, PyTorch, scikit-learn, PyData (pandas, NumPy, SciPy), Spark, AWS (EC2, S3, EMR, Redshift), git / GitHub, UNIX / Linux