Georgia Channing

(914) 589-9957 | georgia.channing@live.com | linkedin/georgia-channing/ | github/georgiachanning

Education

University of Tennessee, Knoxville — Knoxville, TN
BSc. Computer Science, GPA 3.8/4.0 — *Aug. 2017 – May 2022*

ETH Zürich — Zürich, CH
Informatik, GPA 5.5/6.0 — *Feb. 2019 – Aug. 2020*

University of Sourthern California — Los Angeles, CA
Computer Science, GPA 3.7/4.0 — *Jan. 2018 – May 2018*

Experience

Data Scientist — Jul. 2020 – Present
Center for Advanced Defense Studies — *Washington, D.C.*

- Managing the ETL pipeline: collecting sensitive and publicly available data, parsing and formatting data for further processing and visualization, and pipe-lining into the C4ADS proprietary data lake and AWS
- Using NLP, computer vision, and auto-encoders for lead generation and target identification
- Teaching others to integrate novel data tools into their own analytical pipelines
- Managing a team of nine data and foreign language consultants

Data Science Consultant — Jan. 2020 – Sep. 2020
Learning Ally — *Princeton, NJ*

- Primary data scientist on project in conjunction with UCSF in early childhood reading
- Trained model to evaluate California school districts' early learning support through natural language processing (over 5,000+ documents)
- Formatted data-driven conclusions to be accessible and convincing to other divisions

Activities & Awards

UTK Hack4Impact — Sep 2020 – Present
Project Manager — *Knoxville, TN*

- Project manager for volunteer project to support the Appalachian Community Fund.
- Managed a team of six developers and two designers to create a sustainable base of resources in order to support Appalachian community-led organizations seeking to overcome and address issues of race, economic status, gender, sexual identity, disability, and the environment.

UTK Systers — Aug 2019 – Present
Mentorship Director & Member — *Knoxville, TN*

- Director of Mentorship for Systers, the University of Tennessee's organization for promoting and retaining women in computing.
- Organizes tutoring, mentor-mentee pairings and events. Teaches resume and cover letter writing workshops for undergraduate members.
- Mentors two incredible current juniors in computer science.

Grace Hopper Scholarship — Sept. 2021
Association for Computing Machinery (ACM) — *New York, NY*

- Winner of Grace Hopper Celebration Scholarship for promising female students in computer science
- Awarded with conference tickets, networking events, academic support

NSF Research Experience for Undergraduates Fellowship — Jun. 2021 – Aug. 2021
University of California, Berkeley — *Berkeley, CA*

- Winner of National Science Foundation fellowship hosted by U.C. Berkeley's Computational Imaging Lab
- One of 11 students selected from a pool of 500 applicants (2.2 percent acceptance rate)

FourthBrain AI — Mar. 2021 – July. 2021
FourthBrain AI by Andrew Ng — *Virtual & San Francisco, CA*

- 16-week intensive boot camp with final industry project to ensure transfer learning capabilities across data and platforms, and benchmarking models and methods with respect to current industry standards.
- Applied ML and DL methods in scalable, optimized solutions for production-ready environments.

Projects

Spectral DefocusCam | *Compressive Hyperspectral Imaging from Defocus Measurements* Jun 2021 – Aug 2021

- Project associated with NSF Fellowship with Berkeley's Computational Imaging Lab.
- Optimizing and democratizing remote sensing by designing a tunable lens with a rapidly changing focus to reconstruct single-dimensional images to 31-dimensional hyperspectral volumes.
  See code here and poster here.

Bachelor's Thesis | *Machine Learning for Cardiac Arrhythmia Prevention* May 2018 – May 2020

- Used respiratory rates to predict cardiac arrhythmia in hospital patients. Programmed with SQL, Python, and sci-kit learn to implement a Random Forest Classification model with the MIMIC-III database. The model achieved, at its best, an accuracy of 0.98 and F1-score of 0.97 in the prediction of cardiac arrhythmia.
- Received a score of 5.75 out of 6, the highest possible score one can receive without a letter of exemption from the Thesis Office.
- Supervised by Dr. Walter Karlen at ETH Zürich.
  See code here and paper here.

Skills

Foreign Languages: German (C1), Mandarin (C1), Russian (B2), Spanish (B2)
Coding Languages: Python, C/C++, SQL (Postgres), PySpark, Scala
Developer Tools: Git, Docker, Google Cloud Platform, PyCharm, neo4j, Amazon Web Services
Libraries: pandas, NumPy, Matplotlib, sci-kit learn, PyTorch, TensorFlow, nltk, spaCy