

# Nick Chandler

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## EDUCATION

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- **Master of Science in Data Science** Berlin, Germany  
*Berliner Hochschule für Technik* Oct. 2024 - Present
- **Bachelor of Science in Computer Science** Bellingham, WA, USA  
*Western Washington University - ABET Accredited; GPA: 3.96* Sept. 2020 - June 2024

## EXPERIENCE

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- **Data Science Research Assistant** Berlin, Germany  
*Berliner Hochschule für Technik (Calgo Lab)* Feb 2025 - Sept 2026
  - **Tabular Data Research:** Worked on investigating error models in tabular data with Professor Felix Biessmann. Used Helm, Kubernetes, and Docker to execute multi-threaded, distributed experiment code written in Python on a cluster environment. Contributed to open source software on PyPi. Compiled results into visualizations for communicating discoveries. Published research papers at the ACM and IEEE.
- **Computer Science Research Assistant** Bellingham, WA, USA  
*Western Washington University (Hutch Research)* March 2023 - June 2024
  - **Applied Deep Learning Research:** Worked on a team of 4 students with Professor Brian Hutchinson to produce a deep learning pipeline in Python using PyTorch, Pandas, and NumPy to predict characteristics of binary star systems.
- **Mathematics Research Assistant** Bellingham, WA, USA  
*Western Washington University* Oct 2022 - June 2024
  - **Development, Application, and Dissemination of Statistical Testing Research:** Assisted Professor Kimihiro Noguchi in the development of a novel class of two-sample statistical tests. Presented research in poster sessions at several conferences including the 2024 Joint Mathematics Meetings and the 2023 Society of Industrial and Applied Mathematicians PNW meeting.
- **Mathematics Tutor** Bellingham, WA, USA  
*Western Washington University* Sept. 2022 - June 2024
  - **Tutoring Mathematics:** Assisted approximately 50 students per week with a team of other tutors on advanced mathematics topics such as multi-variable calculus, linear algebra, probability theory, statistics, differential equations, and discrete mathematics.

## PROJECTS

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- **Spatiotemporal Modeling of Berlin PM 2.5:** I built a data pipeline to model the daily PM 2.5 in Berlin using time series forecasting and spatial interpolation methods. Components from daily web scraping to the front end were dockerized and deployed with Kubernetes. Usage of Nvidia GPUs was required for the time series models.
- **Automatic Stock Trader:** Built an automatic stock trader using SQL embedded in Java. It queried over 1 million instances of over 30 years of stock data from a MySQL database and executed a pre-specified trading strategy.
- **tab-err:** Contributed to tab-err, an open source Python library to generate errors in tabular data for testing ETL and ML pipelines. Wrote tests, implemented an API, helped to plan development of the project, and did code review.

## SKILLS

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- **Natural Languages:** English (Native), German, Spanish      **Programming Languages:** Python, R, SQL
- **Technologies:** NumPy, Pandas, Polars, Nvidia GPUs, Matplotlib, dplyr, Seaborn, TensorFlow, PyTorch, scikit-learn, MySQL, PostgreSQL, Multithreading, Distributed Computing, Docker, Kubernetes, Helm, Apache Spark, TCP/IP, Linux, Git, HTML, Excel, Generative AI, Large Language Models
- **Soft Skills:** International Communication, Public Speaking, Project Planning, Time Management