

# Shayan Gheidi, PhD (Canadian Citizen)

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## Education

- **PhD Physics**, Simon Fraser University, Canada (2022)
- **MSc Physics**, University of Toronto, Canada (2017)
- **BSc Physics**, University of British Columbia, Canada (2016)

## Work Experience

- **Associate Data Scientist**, May 2022 – December 2024  
**Euromonitor International**, Chicago, IL, USA (TN Visa)
  - Used SQL/BigQuery/Python to transform, derive and display insights from ecommerce data for proof-of-concept of a new subscription product,
  - Trained, tested, monitored, and built machine learning models (NER & logistic regression) to improve metrics (precision and recall) by up to 30%,
  - Built Python web app that allowed TBs of data stored on PostgreSQL to be labeled by staff. Improved ML model performance metrics by up to 15% and reduced labeling time by 50%,
  - Used Python/SQL/BigQuery to calculate annual “digital share of shelf” report of pricing, nutrition and availability of millions of products in over 40 countries. Sophisticated interpolation, outlier detection, smoothing algorithms were implemented. Results were sold to subscribers,
  - Developed and scaled a fully featured Python web app with a custom database (BigQuery and PostgreSQL), providing users with detailed statistical analysis that staff used to write and sell reports.
- **PhD Researcher**, 2017 – 2022  
**Department of Physics, Simon Fraser University**, Vancouver, BC, Canada
  - Analysis, fitting, statistical and computational modelling, visualization, simulation, regression, presentation of spectrometer data. Building Python software to perform statistical analysis and regression,
  - Co-supervised undergrad students, award winning talks and conferences, published 5 peer-reviewed papers, received Faculty of Science Excellence in Teaching Award.
- **MSc Researcher**, 2016 – 2017  
**Department of Physics/Chemistry, University of Toronto**, Toronto, ON, Canada
  - Designed, manufactured, and characterized nanotechnology-based materials,
  - Developed a Python program that analysed, fit (chi-squared regression) and classified hundreds of data files to generate a visual summary of nanotechnology-based materials phase diagrams.

## Skills

- **Programming**: Python (pandas, SciPy, Matplotlib, TensorFlow, Dash, scikit-learn), SQL, Jupyter, PostgreSQL, R
- **Cloud/Tools**: Google Cloud Platform (GCP), BigQuery, Cloud Run, AWS (Lambda, EC2, ECS, ECR), Docker, Git, CI/CD, Tableau, Power BI, Excel
- **Quantitative**: Machine learning, regression, exploratory data analysis, statistical analysis, modelling, data visualization, analytics, forecasting, time series, web-scraping, dashboards, NLP, A/B testing, LLMs, web dev
- **Other**: Excellent written, verbal communication and interpersonal/social skills.