Peter **Moskvichev**

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EDUCATION

2026 – PhD in Computing and Data Science
Nanyang Technological University | *Singapore*
- Research topics: AI Safety, Applied Category Theory, Uncertainty quantification, Causal Inference, Conformal Prediction
- Supervisor: Rob Cornish

2024 – 2026 Master of Philosophy in Statistical Machine Learning
The University of Adelaide | *Adelaide, Australia*
- Research thesis: Calibration of probabilistic machine learning models using kernel methods.
- Research topics: Kernel Methods, Uncertainty Quantification, Trustworthy Machine Learning and Artificial Intelligence
- Supervisors: Dino Sejdinovic and Lewis Mitchell

2021 – 2023 Bachelor of Mathematical Sciences (Advanced)
The University of Adelaide | *Adelaide, Australia*
Major in Applied Mathematics
- GPA: 6.957/7
- Average Course Grade: 95.84

WORK EXPERIENCE

2025 Assistant Lecturer
Haide College | *Qingdao, China & Adelaide, Australia*
Key responsibilities:
- Assisted in delivering tutorials to students at the Ocean University of China through the Haide College programme.
- Co-supervised student discovery projects in mathematics.

2024 – 2025 Mathematics and Statistics Tutor
The University of Adelaide | *Adelaide, Australia*
Key responsibilities:
- Conducted workshops for undergraduate students, covering topics in mathematics, statistics and computer science.
- Marked assignments and provided feedback on student's work.

2023 Research Intern
MIT Bigdata Living Lab | *Adelaide, Australia & Cambridge MA, USA*
Key responsibilities:
- Researched the application of AI and LLMs for data science.
- Developed a Python web application which used API calls to OpenAI to perform statistical analysis on a data set.

Achievements:
- Demonstrated my app at an Adelaide Data Science Centre talk.

2022 – 2023 **Summer Vacation Placement Student**
Defence Science and Technology Group (DSTG) | *Edinburgh, Australia*
Key responsibilities:
- Completed an internship with a high mathematical research focus.
- Developed a machine learning algorithm for data classification in the programming languages MATLAB and Python.

Achievements:
- Selected to present my research at the DSTEM Conference.

VOLUNTEER EXPERIENCE

2023 – 2025 **Co-Founder and Treasurer**
Society of Quantitative Analysis and Data (SQUAD)
Key responsibilities:
- Co-found a student society at the University of Adelaide with a focus on data science and quantitative trading.

Achievements:
- Negotiated an affiliation with the Adelaide Data Science Centre.

2022 – 2024 **President and Social Media Manager**
Adelaide University Mathematics Society (AUMS)
Key responsibilities:
- Organised social and professional events for maths students.
- Marketed and promoted AUMS with various social media platforms.

Achievements:
- Expanded the society's membership to over 500 students.

AWARDS & ACHIEVEMENTS

Awards issued by the University of Adelaide

- **David Murray Prize in Mathematical Science** (2023) – Best performing student graduating a Mathematical Sciences degree
- **JR Wilton Prize** (2023) – Highest average grade in 3rd year Mathematics courses
- **RB Potts Prize** (2023) – Highest average grade in 3rd year Applied Maths courses
- **Excellence Award for Game Theory III** (2022) – Best grade in course
- **EA Cornish Memorial Prize** (2022) – Best grade in 2nd year Probability and Statistics
- **EO Tuck Prize** (2022) – Best average grade in 2nd year Applied Mathematics courses

SKILLS

- **Programming Languages** – Python, Julia, R, MATLAB
- **Natural Languages** – English and Russian

PUBLICATIONS

- **Conference Papers:**
  P. Moskvichev and D. Sejdinovic, *All Models Are Miscalibrated, But Some Less So: Comparing Calibration with Conditional Mean Operators*, in Australasian Joint Conference on Artificial Intelligence (AJCAI), 2025.
- **Preprints:**
  P. Moskvichev, S. L. Chau and D. Sejdinovic, *Measuring Differences between Conditional Distributions using Kernel Embeddings*, arXiv preprint https://arxiv.org/abs/2605.02260 2026.

RESEARCH INTERESTS

- **Trustworthy AI** – Uncertainty Quantification, Calibration, Explainability
- **Statistical Machine Learning** – Kernel Methods, Functional Data Analysis

REFEREES

Prof Dino Sejdinovic – MPhil Supervisor
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Prof Lewis Mitchell – MPhil Supervisor
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