Shailendra Bhandari

Short CV

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Research

Time–series modeling for human behavior with a focus on eye–tracking datasets. Methods: generative models (GANs), stochastic processes (intermittency and Lévy statistics), time–series imaging; prior work on evolutionary search for quantum circuits.

Experience

2024–2025 **Lecturer & Course Developer**, *OsloMet*, Oslo, Norway.
ACIT4420 *Problem–solving with Python Scripting*; curriculum, lectures, labs, assessments.

2024–2025 **Lecturer**, *OsloMet*, Oslo, Norway.
ACIT4510 *Statistical Learning*; co–taught with Prof. Pedro Lind.

2023 **Researcher**, *AI Journalism Resource Center*, Oslo, Norway.
Applied AI methods for investigative journalism.

2021–2022 **Research Assistant**, *NordSTAR*, Oslo, Norway.
Quantum computing with evolutionary algorithms.

2014–2018 **Secondary Mathematics Teacher**, *Marshyangdi Boarding HS*, Kathmandu, Nepal.
Taught mathematics at secondary level.

Education

2023–present **PhD, Artificial Intelligence**, *OsloMet*, Oslo.
Thesis area: generative and stochastic modeling for eye–tracking.

2021–2023 **MSc, Data Science (ACIT)**, *OsloMet*, Oslo.

2019–2021 **MSc, Nuclear & Energy Physics**, *University of Oslo*, Oslo.

2013–2018 **BSc, Physics/Statistics/Mathematics**, *Tribhuvan University*, Kathmandu.

Selected Publications

2025 ***Scientific Reports***, 15:19929.
Modeling eye gaze velocity trajectories using GANs with spectral loss. doi:10.1038/s41598-025-05286-5

2025 ***SoftwareX***, 31:102334.
IntLevPy: classify and model intermittent & Lévy processes. doi:10.1016/j.softx.2025.102334

2024 **GECCO Companion**, *ACM*, pp. 1934–1941.
Modeling stochastic eye–tracking data: QGANs vs. Markov models. doi:10.1145/3638530.3664134

2022 **ACRI (Springer)**, pp. 119–129.
Evolving quantum circuits for stochastic/deterministic CA rules. doi:10.1007/978-3-031-14926-9_11

Full list and BibTeX: shailendrabhandari.github.io/research-publications.html

Teaching & Supervision

Courses ACIT4420 *Problem–solving with Python Scripting* (Lecturer & developer, 2024–25); ACIT4510 *Statistical Learning* (Lecturer, 2024–25).

Supervision	BSc and MSc supervision within ACIT (eye–tracking, ML, stochastic modeling). Full lists on website.

Skills

Programming	Python, MATLAB, LaTeX, C++, Git, SQL (Databricks).
Methods	GANs, time–series imaging (GAF/MTF/RP), Markov/Jump–Diffusion models, evolutionary search.
Tools	Linux, Windows, reproducible workflows, unit testing.

More

Website (bio, news, full publications, projects, teaching & supervision, contact): shailendrabhandari.github.io