Artificial Intelligence | Software Engineer

Landfried, Gustavo

Nationality	Swiss - Argentine
Languages	English C1 | French C1 | Spanish native
Residence	Ciudad de Buenos Aires, Argentina.
Birthday	October, 1985
Telephone	+54 911 5103 7334
Email	glandfried@dc.uba.ar
Web	glandfried.github.io/
Linkedin	bit.ly/in-glandfried
Github	github.com/glandfried

Bayesian inference. PhD Computer science. MSc Social anthropology.

- Promoter of the Latin American Bayesian community (bayesplurinacional.org)
- Causal reasoning based on the strict application of probability rules
- Developer and maintainer of open software in Python, Julia and R
- Solid experience in machine learning software development
- Outstanding methodological background in social sciences
- Fluent teamwork within interdisciplinary groups
- Technical reports accessible to diverse audiences

Work experience

2023 – *Full-time researcher (75%) and teacher (25%)* – Computer Science Department UBA
Research activities in applied data science, algorithms and artificial intelligence.

2022 – *Bayesian causal data science* – Laboratorios de Métodos Bayesianos
Specification and evaluation of alternative causal models in finance, health and sports.

2016 – 2022 *Graduate teaching assistance in Computer Science* – Buenos Aires University
Teaching activities in various courses at the Computer Science degree.
Master's thesis director in Computer Science and Seminar on Bayesian Inference.

2016 – 2022 *Doctoral Fellowship in Computer Science* – Instituto de Ciencias de la Computación
Artificial Intelligence Lab and High Performance Computing Lab.
Bayesian analysis of learning in video game communities (defense 2024/04)

2015 – 2016 *Coordinator* – National Audiovisual Audience Measurement System
Coordinator of the areas of social sciences and computer technical support.
Administration of the database and the automatic survey system.

2012 – 2013 *Social work* – Ministerio de Desarrollo Social, Argentina
Impact evaluation of public policies and counseling for the "Argentina Trabaja" program.

2008 – 2016 *Data Scientist* – Grupo Antropocaos
Formal methods in social sciences. Simulation and predictive models. Online bets.

Association *Co-founder* – Bayes Plurinacional
Organizer of the Plurinational Bayes Congress 2023 and 2024 (bayesplurinacional.org).

Education Buenos Aires University

2016 – 2022 PhD in **Computer Science.**

2012 – 2015 Licentiate in Computer Science. (Suspended after promotion to PhD)

2005 – 2009 Licentiate (BSc + MSc) in **Anthropological Sciences**.

Teaching Buenos Aires University

2023 – *Algorithms and data structures II* (with `Java`). Department of Computer Science.

2020 – *Bayesian Inference* (with `C#`, `Julia`, `Python` and `R`). Faculty of Exact and Natural Sciences.

2019 – *One-on-one mentoring.* Director of master's thesis in the Department of Computer Science.

2019 – 2019 *Algorithms and data structures I* (with `C++`). Department of Computer Science.

2018 – 2019 *Introduction to Computer Science* (with `Python`). Department of Computer Science.

2018 – 2018 *Computational Social Science* (with `R`). Departments of Anthropology and Computer Science.

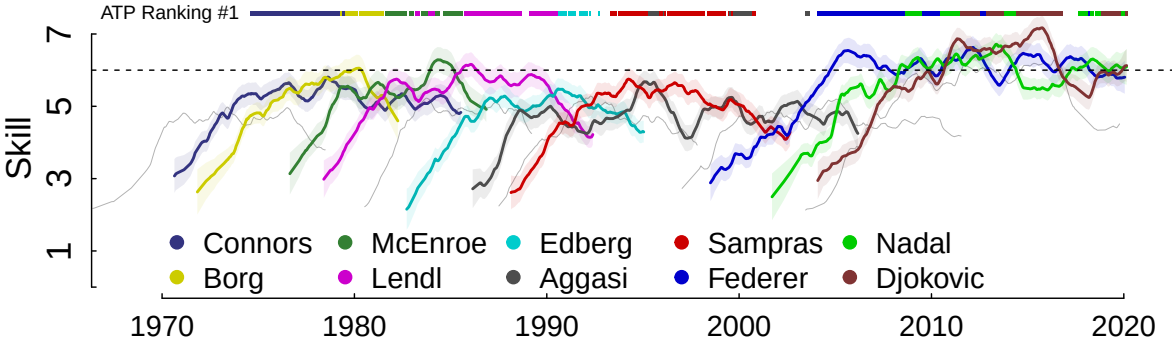
2016 – 2017 *Functional programming* (with `Haskell`). Department of Computer Science.

2010 – 2010 *Artificial Societies and Ethnography* (with `Netlogo`). Department of Anthropological Sciences.

Scientific research

Software

The state-of-the-art skill estimator: `github.com/glandfried/TrueSkillThroughTime`
Developer. Efficiently inference through distributed message-passing algorithms and analytical approximation methods, even in causal networks with millions of nodes and irregular structures.



Articles

○ Landfried, G., Cairo G., Mocskos E. *Boosting skills within Hyperconnected Population Structures by Peripherical Social Interactions*. Submitted to Journal of Computational Social Sicence. 2024.

○ Landfried G., Mocskos E. *TrueSkill Through Time: reliable initial skill estimates and historical comparability in Julia, Python and R*. In press at Journal of Statistical Software. 2023. Download.

○ Landfried, G; Fernandez Slezak, D; Mocskos, E: *Faithfulness-boost effect: Loyal teammate selection correlates with skill acquisition improvement in online games.* PLoS one. 2019.

Software tools

`Python` (`Pytorch`, `TensorFlow`, `Keras`, `PyMC`, `Scipy`, `Sklearn`, `Pandas`, `Numpy`, ...), `C++` (`MPI`), `Julia` (`Turing`, ...), `R` (`Stan`, ...), `C#` (`Infer.NET`, ...), `Haskell`, `Bash` (`screen`, `ssh`, `vi`, `rsync`, `awk`, ...), `SQL`, `NoSQL`, `Git`, `Docker`, `Latex` (`Tikz`), `Html`, ...