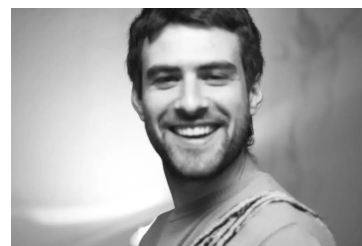


Landfried, Gustavo



Causal inference
Computer Science | Anthropology

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Profile PhD in computer science after a MSc in social anthropology. **Causal reasoning under uncertainty.**

- Skills**
- Intersubjective agreements through the strict application of the rules of (Bayesian) probability
 - Evaluation of the whole hypotheses space according to the empirical evidence
 - Efficient computation through distributed algorithms and analytical approximation methods
 - Mathematical specification of causal arguments that are expressed in natural language
 - Fluid teamwork with non-academic actors involved in the real processes
 - Determining the value of competing causal models and optimal betting strategies
 - Conclusions obtained through the development of open, reproducible and auditable software
 - Scientific reports accessible to diverse audiences with intuitive visualisations

Tools Julia (Turing, ...), Python (PyMC3, PyTorch, TensorFlow, Scipy, Sklearn, Pandas, Numpy, Selenium, Virtualenv, Django, Telegram-bot, ...), R (Stan, ...), Jupyter, C# (Infer.NET), C++ (MPI), Haskell, SQL (Postgres, MySQL), NoSQL (Kafka, Neo4j), Git, Docker, Bash (screen, ssh, vi, rsync, awk ...), Makefile, Latex (Tikz), Inkscape, Html (CSS, Markdown), Cloud (AWS, Google)

Association *Co-founder* – Bayesian Methods Laboratory
Organization of the first Plurinational Bayesian Congress (bayesdelSur.com.ar) in Latin America.
Teaching Bayesian methods to university graduates of social sciences and computer sciences.
Consulting activities on the evaluation of alternative causal models for optimal decision making.

Education Universidad de Buenos Aires

2016.06 – 2022.06 PhD in **Computer Science**. (Defense 2023)
2012.08 – 2015.12 Licentiate in Computer Science. (Suspended after promotion to PhD)
2005.03 – 2009.12 Licentiate (BSc + MSc) in **Anthropological Sciences**.

Work experience

2016.02 – *Graduate teaching assistance in Computer Science* – Buenos Aires University
Current positions: Master's thesis director in Computer Science and Seminar on Bayesian Inference.
Previous positions: teaching activities in various courses at the Computer Science degree.

2016.06 – 2022.06 *Doctoral Fellowship in Computer Science* – Instituto de Ciencias de la Computación CONICET
Research activities in [Artificial Intelligence Lab](#) and [High Performance Computing Lab](#).
Thesis: Bayesian evaluation of social factors on learning in video games (defense 2023)

Software: Release of the first open version of the state-of-the-art skill estimator in the video game industry.
Source: github.com/glandfried/TrueSkillThroughTime

Scientific articles:

- Landfried, G., Cairo G., Mocskos E. *Exploring the effect of network structure on individual learning: a longitudinal study of an online Go game community*. Preprint Github. 2022. [Download preprint](#).
- Landfried, G; *The multiplicative nature of evolutionary and probabilistic selection processes as the general driver for emergence of cooperation and specialization*. Preprint Github. 2022.
- Landfried G., Mocskos E. *TrueSkill Through Time: reliable initial skill estimates and historical comparability in Julia, Python and R*. In review at Journal of Statistical Software. Preprint Github 2021. [Download preprint](#).
- Landfried, G; Fernandez Slezak, D; Mocskos, E: *Faithfulness-boost effect: Loyal teammate selection correlates with skill acquisition improvement in online games*. PLoS one. 2019.

2015.07 – 2016.03

Coordinator – National Audiovisual Audience Measurement System (PASCAL)

Coordinator of the areas of social sciences and computer technical support.

Measurement of public opinion, administration of the database and the automatic survey system.

Specialist in data science, survey design and statistical methods.

2014.01 – 2015.06

Data Engineer – High Performance Computer Lab. UBA.

Support activities for researchers. Distributed computing. Parallel programming. Relational database.

2012.08 – 2013.05

Public policy evaluation – Ministerio de Desarrollo Social, Argentina

Impact evaluation of public policies. Ethnography and community action.

2008.08 – 2016.06

Data Scientist – Freelance at Grupo Antropocaos

Application of formal methods in social sciences. Simulation and predictive models. Online bets.

Teaching Buenos Aires University

2020.02 –

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

2019.08 –

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

2019.02 – 2019.08

Algorithms and data structures I (with C++). Department of Computer Science.

2018.08 – 2019.08

Introduction to Computer Science (with Python). Department of Computer Science.

2018.02 – 2018.08

Computational Social Science (with R). Departments of Anthropology and Computer Science.

2016.02 – 2017.08

Functional programming (with Haskell). Department of Computer Science.

2010.02 – 2010.07

Artificial Societies and Ethnography (with NetLogo). Department of Anthropological Sciences.

Scientific events

2022

Computer Science Research Day. Université de Buenos Aires, Argentina. [Poster](#)

2019

3rd [ESLR](#). Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. [Poster](#).

2018

Machine Learning Summer School, [MLSS](#). Torcuato Di Tella University, Argentina. [Poster](#).

Languages

Spanish	French	English
Native	C1	C1