Software Developer | Machine Learning

Nationality
Languages
Birthday
Telephone
Email
Web
Linkedin
Github

Landfried, Gustavo

Swiss - Argentine
English C1 | French C1 | Spanish C2
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Bayesian inference. Computer science. Social anthropology.

- Causal reasoning based on the Bayesian approach of probability
- Developer and maintainer of open software in Python, Julia and R
- Background in software development and machine learning
- Understanding of data structures, algorithms, and statistics
- Efficient computation through distributed algorithms and heuristics
- Fluent teamwork within interdisciplinary groups
- Scientific reports accessible to diverse audiences

Work experience

2016 -

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

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 2023)

2015 - 2016

Coordinator – National Audiovisual Audience Measurement System Coordinator of the areas of social sciences and computer technical support.

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Administration of the database and the automatic survey system.

2014 - 2015

Junior Data Engineer — High Performance Computer Lab.
Support for researchers. Distributed computing. Parallel programming. Relational database.

2012 - 2013

Social work – Ministerio de Desarrollo Social, Argentina Impact evaluation of public policies. Ethnography and community action.

2008 - 2016

Data Scientist - Grupo Antropocaos

Formal methods in social sciences. Simulation and predictive models. Online bets.

Association

Co-founder – Bayesian Methods Laboratory

Organization of the first Plurinational Bayesian Congress (bayesdelsur.com.ar) in Latin America. Specification and evaluation of alternative causal models for optimal decision making.

Software tools

Julia (Turing, ...), Python (PyMC3, Scipy, Sklearn, Pandas, Numpy, TensorFlow, Virtualenv, ...), R (Stan, ...), C# (Infer.NET), C++ (MPI), Haskell, Bash (screen, ssh, vi, rsync, awk ...), SQL, NoSQL (Kafka, Neo4j), Git, Docker, Latex (Tikz), Html, ...

Education Universidad de Buenos Aires

2016 – 2022 PhD in **Computer Science**. (Defense 2023)

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

Licentiate (BSc + MSc) in Anthropological Sciences.

Teaching Buenos Aires University

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

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

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

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

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

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

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

Scientific research

Software

2012 - 2015

2005 - 2009

2019 - 2019

2018 - 2019

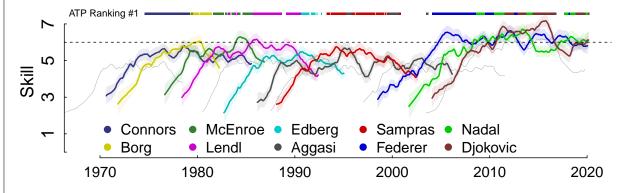
2018 - 2018

2016 - 2017

2010 - 2010

2020 *–* 2019 *–*

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



Articles

- o Landfried, G., Cairo G., Mocskos E. *Exploring the effect of network structure on individual learning:* a longitudinal study of an online Go game community. Github 2022. Download.
- o Landfried, G; The multiplicative nature of evolutionary and probabilistic selection processes as the general driver for emergence of cooperation and specialization. Github 2022. Download
- o 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. Github 2021. Download.
- o Landfried, G; Fernandez Slezak, D; Mocskos, E: Faithfulness-boost effect: Loyal teammate selection correlates with skill acquisition improvement in online games. PLoS one. 2019.

Events

2022. Computer Science Research Day. Université de Buenos Aires, Argentine. Poster2019. 3rd ESLR. Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. Poster.

2018. Machine Learning Summer School, MLSS. Torcuato Di Tella University, Argentina. Poster.