Steven Geinitz

Golden, Colorado, USA
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CAREER

Associate Professor 2024 –
Assistant Professor 2020 – 2024
Metropolitan State University of Denver
Department of Computer Sciences
Denver, CO

Data Science Manager 2018 – 2020
Facebook – Marketing Science Ads Research
Menlo Park, CA

Data Scientist / Quantitative Researcher 2015 – 2018
Facebook – Marketing Science R&D
Menlo Park, CA (2017 – 2018)
London, United Kingdom (2015 – 2016)

Sr. Quantitative Analyst 2013 – 2015
eBay – Internet Marketing Analytics
Zurich, Switzerland

Software Developer, Game Mathematician 1999 – 2004
Millennium Gaming Inc. (startup)
Lakewood, CO

Software Developer, Project Manager 2002
Mídia Show
São Paulo, Brazil

EDUCATION

PhD Applied Statistics 2009–2013
University of Zurich, Zurich, Switzerland

PhD Coursework and Qualifying Exams (4.0) 2007–2009
Colorado School of Mines, Golden, CO

MSc Computer Science (4.0) 2004–2006
University of Colorado, Denver, CO

BSc Mathematics (subject 4.0, overall 3.67) 2004–2006
BSc Computer Science (subject 3.75) 1996–1999
Metropolitan State University, Denver, CO

General Studies 1994–1995
University of Colorado, Boulder, CO

PUBLISHED/ PRESENTED

Singh, S., Rajan, R., Geinitz, S., Peprah, K., Jay, S. (under review) *Exploring the Pedagogical Potential: An Investigation into Faculty and Students' Perceptions of Integrating Generative AI in the Classroom.*

Geinitz, S. (2025, January). *ArguBot Arena: Prompt Engineering a Debate on Responsible AI.* EAAI-26: The 16th Symposium on Educational Advances in Artificial Intelligence (EAAI).

Geinitz, S. (2025). *Improving student learning and socialisation via technology-enhanced collaboration.* International Journal of Technology Enhanced Learning.

Geinitz, S. (2024, September). *Dynamic Duo: Enhancing Collaborative Learning Through Strategic Student Pairings.* In International Conference on Interactive Collaborative Learning (pp. 27-37). Cham: Springer Nature Switzerland.

Geinitz, S. (2023, September). *PICA: A Data-Driven Synthesis of Peer Instruction and Continuous Assessment.* In Joint European Conference on Machine Learning and Knowledge Discovery in Databases (pp. 3-17). Cham: Springer Nature Switzerland.

Runge, J., Geinitz, S., and Ejdemyr, S. (2020). *Experimentation and performance in advertising: An observational survey of firm practices on Facebook.* Expert Systems with Applications, 158, 113554.

Geinitz, S., Furrer, R., and Sain, S. R. (2015). *Bayesian multilevel analysis of variance for relative comparison across sources of global climate model variability.* International Journal of Climatology, 35(3).

Furrer, R., Geinitz, S., and Sain, S. R. (2012). *Assessing variance components of general circulation model output fields.* Environmetrics, 23(5), 440-450.

Ward, T. J., Palmer, C. P., Houck, J. E., Navidi, W. C., Geinitz, S., and Noonan, C. W. (2009). *Community woodstove changeout and impact on ambient concentrations of polycyclic aromatic hydrocarbons and phenolics.* Environmental science and technology, 43(14), 5345-5350.

PAPERS/ PATENTS/ PROJECTS

Geinitz, S. *Canvigator: Helping educators enhance their teaching by applying tried-and-true pedagogical techniques via the Canvas LMS - (formerly PICATA)*, https://github.com/sgeinitz/canvigator, 2022-present.

U.S. Patent Number 10438018, Steven Geinitz, Nikhil Shaw *Identifying online system users included in a group generated by a third party system without the third party system identifying individual users of the group to the online system (a novel use of Bloom filters)*, Granted Oct, 2019.

Geinitz, S., Furrer, R. and Sain, S. R. *MMANOVA: A general multilevel framework for multivariate analysis of variance*. arXiv:1207.2338[stat.ME], July 15, 2012.

Colagrosso, M., Geinitz, S. and Metcalf, C. *Xubuntos: Linux distribution designed to facilitate development of wireless sensor network applications using TinyOS*, 2007.

TEACHING

Assistant/Associate Professor — Metropolitan State University of Denver
Fall 2020–

CS 2050 Computer Science 2
CS 2240 Discrete Structures
CS 3120 Machine Learning
CS 3250 Introduction to Software Development Methods and Tools
CS 3240 Theory of Computation
CS 4050 Algorithms and Algorithm Analysis
CS 39AA NLP with Deep Learning
DSML 4220 Deep Learning

Graduate Teaching Assistant / Recitation Instructor — University of Zurich
Fall 2009–Spring 2013

STA 402 Likelihood Inference
STA 422 Bayesian Inference
STA 406 Applied Regression
STA 430 Spatial Epidemiology
STA 912 Spatial Statistics
STA 957 Generalized Regression

Statistical Consultant — University of Zurich
Fall 2010–Fall 2012

Provide one-hour long counseling sessions for students and researchers from other fields on use of statistical methods

Graduate Teaching Fellow — Colorado School of Mines
Fall 2007–Spring 2009

MATH 323 - Probability and Statistics for Engineers

Affiliate Faculty — Metropolitan State University of Denver
Fall 2006–Summer 2007

MTH 1210 – Introduction to Probability and Statistics