Sam Stewart

Education

PhD, Math, University of Minnesota (Minneapolis, MN) 2020
BS, Math, Lewis & Clark College (Portland, OR) 2015

Work Experience

Data Scientist at World Wide Technologies (New York) February 2020 - Present

- Working on a variety of machine learning projects for WWT clients

Intern at Wolfram Research (Illinois) Summer 2019

- Wrote a bridge between core Mathematica framework to open source Python framework

Tractors for Africa (Burkina Faso) Summer 2017

- Sole language and cultural liaison between US team and local team in a rural town in Burkina Faso

Software Engineer, Upsight Analytics (Portland, OR) 2013-2015

- Wrote entire Android advertising framework that served millions of ads per month

Research Experience

Graduate Research Assistant (Minneapolis, MN) 2015-2020

- Designed a fast algorithm for massive simulations of human crowds
- Novel contributions to fast MRI reconstruction problem in collaboration with the Center for MRI at the University of Minnesota

Summer Undergraduate Research Experiences (Portland, OR) 2012-2015

Skills

- **Programming:** Linux, Git, Python, C/C++, Mathematica, Matlab, R, Julia, Java
- **Math:** optimization, machine learning
- **Languages:** French (fluent), Spanish (basic proficiency)

Papers

- Jia, Hao, Samuel Stewart, and Vladimir Sverak. *On the De Gregorio Modification of the Constantin–Lax–Majda Model.* Archive for Rational Mechanics and Analysis 231.2 (2019): 1269-1304.
- Basaldúa, Jacques, Samuel Stewart, J. Marcos Moreno-Vega, and Peter D. Drake. *Two online learning playout policies in Monte Carlo Go: An application of win/loss states.* IEEE Transactions on Computational Intelligence and AI in Games 6.1 (2013): 46-54.
- Daly, K., Gavin, C., Montes de Oca, G., Ochoa, D., Stanhope, E., & Stewart, S. *Orbigraphs: a graph-theoretic analog to Riemannian orbifolds.* Involve, a Journal of Mathematics 12.5 (2019): 721-736.

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