Anselm Vukovich-Oyebanji

Mathematician
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SUMMARY

Applied mathematician with a PhD and 5 years in industrial research, specializing in optimization, numerical methods and stochastic models. Builds models in Python and Julia, proves the properties engineering teams rely on and explains assumptions and limits in plain terms. Author of 6 peer-reviewed papers.

EXPERIENCE

Research Mathematician — Lakefront Applied Research Group

Milwaukee, WI · Sep 2020 – Present

- Formulated a mixed-integer model for routing 140 service vehicles, reducing planned travel distance by 12% in a 3-month field pilot.
- Derived a preconditioner for a finite element solver used in thermal simulations, cutting average solve time from 40 to 9 minutes.
- Proved convergence bounds for a scheduling heuristic, giving the engineering team a worst-case error estimate that held within 3% on 500 benchmark instances.
- Built a stochastic inventory model for 2,000 spare parts, lowering stockouts by 18% over 1 year while holding inventory value flat.
- Mentored 3 summer research interns, 2 of whom co-authored conference papers with the group.

Postdoctoral Research Associate in Mathematics — University of Wisconsin–Milwaukee, Department of Mathematical Sciences

Milwaukee, WI · Aug 2018 – Aug 2020

- Published 4 papers on convex optimization and spectral graph theory, cited about 90 times to date.
- Taught 3 courses in numerical analysis and linear algebra to about 150 students in total.
- Released an open-source Julia package for sparse eigenvalue problems with about 400 GitHub stars.

SKILLS

Mathematics: Convex and integer optimization, numerical linear algebra, PDEs, probability and stochastic processes, graph theory

Computing: Python (NumPy, SciPy), Julia, MATLAB, C++, Gurobi, Git, LaTeX

Methods: Mathematical modeling, proof writing, algorithm analysis, Monte Carlo simulation, sensitivity analysis

Communication: Technical reports, peer-reviewed papers, briefings for engineers and managers, teaching

EDUCATION

PhD, Applied Mathematics, University of Minnesota, 2018

B.S., Mathematics and Physics, Marquette University, 2013

Fictional example by FindAJobAI: the person, employers and numbers are invented.