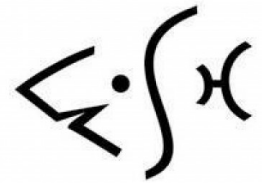# RANI BASNA

About Me

Doctor of Mathematical Statistics with a specialty in Machine Learning, with more than 10 years of research and teaching experience. I catch on quickly and I'm very eager to learn. I am self motivated and enjoy overcoming challenges. I do enjoy working with a focused and creative team to meet goals and deadlines. I am delighted to read and interpret science with the purpose of communicating it to the public, management or experts. I spend most of my free time with my two children and my wife I enjoy playing board games and chess. I don't miss the chance to meet friends and do social activities.

🎓 EDUCATION

2016

Doctorate of philosophy in science
Linnaues Univesity
📍 Växjö, Sweden

Thesis: Mean field games for Jump Processes

2010

M.S. in Mathematical Modeling
Linnaues Univesity
📍 Växjö, Sweden

Specialize in Mathematical Statistics and Financial Mathematics.

2005

Diploma of Postgraduate Studies in Science
Tishreen University
📍 Latakia, Syria

2004

B.S. in Mathematical Science
Tishreen University
📍 Latakia, Syria

💻 RESEARCH EXPERIENCE

2021 | Now.

Machine Learning Researcher
Institute of Medicine.
📍 Gothenburg, Sweden.

- Topics: Machine learning, Database developing, Statistical learning, Computational disease phenotype.
- Bayesian Network, PhD supervisions, Deep Learning for Clustering.

2019 | 2021

Data Scientist Post-Doctoral.
Department of Internal Medicine and Clinical Nutrition at Institute of Medicine.
📍 Gothenburg, Sweden

- Topics Machine learning, Database developing, Dimensionality reduction, Statistical learning, Computational disease phenotype, Network disease modeling, risk modeling, Advanced method Clustering, Hight performance computing, and missing data imputation modeling.

💼 PROFESSIONAL EXPERIENCE

2018 | 2019

Data scientist
Unumai Danish based company.
📍 Copenhagen, Denmark

- User Behaviour predictions.
- Recurrent Nueral Network.
- Send-time optimization
- Bayesian Optimization and Bayesian Bandits.

CONTACT INFO

✉ rani.basna@gu.se

🐙 Github

🐦 Twitter: @RaniBasna

Orcid

🏠 ranibasna

SOFTWARE

📦 Package {mananciais} - Co-Author, maintainer.

TEACHING

GitHub repo for material.

PROGRAMMING SKILLS

Ⓡ R

🐍 Python

🐳 Docker

📊 tidyverse

𝑔 Git

🐙 GitHub

Markdown

🗄 DataBase

2017 | 2018

Data scientist and AI Framework Developer
Company Blackwood Seven. 📍 Copenhagen, Denmark

· Methods: Bayesian Statistical Hierarchical Regression Model.
· Markov Chains Monte Carlo.
· Marketing Mix Modeling.
· Non-convex constrained optimization, Sequential Optimization.

· Stochastic Approximation (Stochastic gradient Descent methods and its variants).
· Bayesian Optimization, Variational Inference, Proximal operator methods.

🖥 TEACHING EXPERIENCE

Teacher at University of Gothenburg
· Reproducible research in computational Science. 📍 Gothenburg, Sweden.

2019-Now

Teacher assistant at Linnaeus University
· Subjects: Calculus 1, Basic Mathematics, Linear Algebra, Lab sessions for Risk and Portfolio Analysis, Lab sessions for Insurance Mathematics, and Linear Statistical Models.

📍 Växjö, Sweden.

2010 - 2014.

Teacher assistant at University of Aleppo
· Probability and Statistics, Programing Language, Complex Analysis, Differential Equations.

📍 Aleppo, Syria.

2006 - 2008.

Teacher assistant at Tishreen University
· Calculus, Probability, Statistics, Mathematical Mechanic. 📍 Latakia, Syria

2003 - 2006.

📄 SELECTED PUBLICATIONS

2014

Rani Basna, Astrid Hilbert, Vassili Kolokoltsov. "An Epsilon Nash equilibrium for non-linear Markov games of mean field type on finite state space".
Communications on Stochastic Analysis,(2014) 449- 468.pages. 📍 Växjö, Sweden.

Rani Basna, Astrid Hilbert, Vassili Kolokoltsov.

2016

"An Epsilon Nash equilibrium for pure jump Markov games of mean field type on continuous state space".
Stochastics: An International Journal of Probability and Stochastic Processes.

📍 Växjö, Sweden.

Rani Basna, Astrid Hilbert, Vassili Kolokoltsov.