Sybille Légitime
Curriculum Vitae

🏠 | Providence, RI, 02906
📞 | +1 (508) 745-8961
✉ | smlegitime@live.com
in | slegitime
⬛ | smlegitime

EDUCATION

SEP 2024 – PRESENT | **Doctor of Philosophy**
Computer Science
Brown University

JAN 2021 – AUG 2022 | **Master of Science**
SARAH LEVITAN FELLOW
Computer Science and Engineering
University of Connecticut

AUG 2014 – MAY 2018 | **Bachelor of Arts**
SUMMA CUM LAUDE GRADUATE
Computer Science
International Business
Saint Anselm College

RESEARCH EXPERIENCE

(FT) indicates full-time positions, and (PT) indicates part-time positions.

SEP 2024 – PRESENT (FT)

Brown University, Providence, RI
Research Assistant

Data In Society Collective (DISCO) Lab | Advised by Harini Suresh

Projects: *Swahili model development with Femicide Count Kenya and Data Against Feminicide.*

Chronicling social media platform co-design and migration through the case of Lips.social

FEB 2021 – AUG 2022 (FT)

University of Connecticut, Storrs, CT
Research Assistant

Bayes Omics (EL GATO) Lab | Advised by Derek Aguiar

Projects: *Opioid Use Disorder (OUD) Risk Modelling through Mobility and Genetic Feature Integration.*
Developed, implemented, and reported on an experimental design and computational methods to assess OUD risk using genetic variants associated with OUD and behavioral features extracted from GPS and Wi-Fi mobility traces.

Supporting Math and Science Teacher Learning to Address Societal Issues with Data Science and AI.
Developed the interactive modules included in the framework for training math and science high school teachers to use data science and AI to facilitate the learning of core computer science concepts among high school students.

OCT 2017 – APR 2018 (PT)

Saint Anselm College, Manchester, NH
Undergraduate Independent Researcher

Advised by Dina Frutos-Bencze and Mihaela Malita

Empowering Small-Scale Waste Handlers: A Case for the Introduction of a Waste Handling Management System in Port-au-Prince, Haiti

AWARDS

2022 | **Sarah Levitan Larie Fellowship**
Department of Computer Science and Engineering
University of Connecticut

2018 | **Shacklette Award for Academic Excellence**
Department of Economics and Business
Saint Anselm College

2018 | **President's Award for Academic Excellence**
Saint Anselm College

PUBLICATIONS

Preprints and Works Under Review
2023

S. Légitime, K. Prabhu, D. McConnell, B. Wang, D. K. Dey, and D. Aguiar. Improving Opioid Use Disorder Risk Modelling through Behavioral and Genetic Feature Integration. *arXiv:2309.10837*.

Accepted Works
2023

Bai, Y., Campbell, T., **Légitime, S.**, Aguiar, D., Staples, M., & Corricelli, J. Curriculum Design and Improvement: Integrating AI Concepts and Societal Problems in a Secondary Science Module. Paper for the 2024 National Association for Research in Science Teaching (NARST) International Convention. March 17-20, Denver, CO.

M.S. Thesis
2022

S. Légitime. Opioid Use Disorder Risk Modelling through Mobility and Genetic Feature Integration. University of Connecticut.

PRESENTATIONS

TALK | Oral Presentation at the Saint Anselm College SOAR: Mind Over Major Conference – May 2018

POSTER | Consortium for Computing Sciences in Colleges, Northeastern Conference (CCSCNE) – April 2018

POSTER | Southern New Hampshire University Undergraduate Research Day – April 2018

Designed a management web application aimed at increasing productivity in daily operations of small-scale waste handling businesses. Investigated the technical and business implications of this application in the city of Port-au-Prince, Haiti.

AUG 2017 – DEC 2017 (PT)

Saint Anselm College, Manchester, NH
Undergraduate Research Assistant

Advisor: Adam Albina

Assessing the Impact of a Geospatial Information System for Improving Campus Emergency Decision-Making of Novice Crisis Managers
Assisted in conducting scenario-based experiments and interviews with participants to assess the impact of an emergency management GIS system on the decision performance of novice crisis managers.

PROFESSIONAL EXPERIENCE

AUG 2022 – AUG 2024 (FT)

Prudential Financial, Newark, NJ (Remote)
Senior Machine Learning Engineer

Architect, develop, and maintain machine learning systems for Prudential's Global Technology division. Work with business, data, and design teams to assist with data-related technical issues and support infrastructure needs.
Notable projects: Designing and implementing LLM enterprise platform for Prudential.

SEP 2018 – JAN 2021 (FT)

Amadeus IT Group, Portsmouth, NH
Associate Software Engineer

Developed automation tools and services to support the optimization and streamlining of the CI/CD Amadeus Sales and Event Management software pipeline. Monitored and resolved issues of system health and performance to ensure service reliability.

JUNE 2017 – AUG 2017 (FT)

ESPN, Bristol, CT
Software Engineer Summer Intern

Built and maintained features and functionality across ESPN.com and ESPN's international edition-site platform using front-end frameworks and server-side templating

LEADERSHIP EXPERIENCE

Delta Epsilon Sigma National Scholastic Honor Society
Chapter President   Jan 2017 - April 2018

Alpha Lambda Delta National Honor Society
Chapter Treasurer   Aug 2015 - May 2016

President's Committee for Diversity & Inclusivity: Saint Anselm College
Student Representative   Aug 2015 - May 2018

Office of Residential Life and Education: Saint Anselm College
Resident Assistant   Aug 2015 - May 2018

Academic Resource Center: Saint Anselm College
Tutor (French, Discrete Math, Intl. Bus. Mgt.)   Jan 2015 - May 2018

TECHNICAL SKILLS

CERTIFICATIONS	AWS Certified Machine Learning Specialty Nov 2023 - Nov 2026
OS	Linux, Windows
AI/ML	Languages: Python, R Libraries: SKlearn, TF, Pytorch AWS SM, Langchain, Openai API Data Viz.:Python Dash, Plotly, Seaborn
DATABASE	MongoDB, SQL, Redis AWS: S3, Athena, Glue
DEVOPS/MLOPS	Azure DevOps Docker, Jenkins
WEB DEV	Javascript (React, Node.js), HTML, CSS/SCSS OCLIF, Heroku
WRITING	LaTeX, Microsoft Office Suite

COMMUNICATION SKILLS

LANGUAGES	Kreyòl (Haitian Creole), French English, Spanish

VOLUNTEER EXPERIENCE

International Institute of New England, Boston, MA
Volunteer ESOL Instructor   2023-2024

Society of Women Coders
Mentor and Hackathon Judge   2021

International Institute of New England, Manchester, NH
Volunteer ESOL Instructor   2020

Meelia Center for Community Engagement (U.S) / Institution Sacré Coeur de Jésus (Haiti)
Student Ambassador   2015-2018

The Salvation Army's Kid's Café, Manchester, NH
Volunteer   2014

New Hampshire Institute of Politics
Student Ambassador   Sept 2014 - May 2016