

Scott Caputo

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github.com/scottvcaputo

EDUCATION

Columbia University, Columbia Engineering New York, NY
MS in Chemical Engineering, Concentration in Data Science Expected Dec 2021

Florida State University Tallahassee, FL
BS in Biochemistry, Mathematics Aug 2019

PROFESSIONAL EXPERIENCE

Regenerative Processing Plant Jan 2020 – Jun 2020

- Conducted research as lead lab biochemist, producing FDA approved engineered biologics. Developed and optimized procedures handling collagen 1 and 3 extraction from placentas and umbilical cords.
- Carried out various biochemical processes, including protein extraction, filtration, and purification, while working under sterile conditions. Resulting product aided in production and assembly of Regener-eyes® eye drops.

Florida State University, Research Laboratory of Dr. Igor Alabugin Jan 2018 – May 2018

Undergraduate Research Assistant, Department of Chemistry and Biochemistry

- Synthesized unique molecules and worked to more efficiently recreate existing molecules.
- Specialized in synthesizing molecules possessing cyclic nature and common nitrogen groups.

Florida State University, Research Laboratory of Dr. Hong Li Aug 2016 – Dec 2017

Undergraduate Research Assistant, Department of Chemistry and Biochemistry

- Conducted research on protein expression and analysis in bacterial and plant cells.
- Focused primarily on applications of biochemistry and molecular biophysics to better understand structural mechanisms of molecular assemblies taking place throughout gene expression and regulation processes.

SKILLS

Technical: Programming (Python, Javascript, React, React Native), Tensorflow, Keras, Pytorch, Machine Learning, Deep Learning, AWS, Bootstrap, jQuery, Node.js, Express, MongoDB, HTML5, CSS (Scss), Octave, Matlab, Excel, Unity.

Laboratory: Chromatography (column, Ion exchange, HPLC, GC, GCMS), Spectroscopy (flame, absorbance, Raman, IR, FTIR, UV-Vis), Nuclear Magnetic Resonance (NMR) spectrum, Electron Microscopy, Controlled protein expression and extraction, Centrifugation, compound isolation, filtration, Gel Electrophoresis, Polymerase Chain Reaction, data processing and visualization.

Interpersonal: Highly motivated, Skilled in analytical problem solving, Strong attention to detail, Experience working in fast-paced environments both independently and with groups, Excellent communication skills, Experience examining and presenting complex scientific literature to research teams.

ACHIEVEMENTS

Certificates: Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models, Python, Programming Foundations with JavaScript, HTML and CSS, Mathematics for Computer Science, Front-End Web UI Frameworks and Tools: Bootstrap 4, Front-End Web Development with React, Multiplatform Mobile App Development with React Native, Server-side Development with NodeJS, Express, and MongoDB.

Specializations: Deep Learning, Full-Stack Web Development with React, Computer Science and Programming.

Additional Achievements: Constructed multiple functioning PCs, coded open source projects working with machine learning, deep learning, automation, as well as web and app development.