

Quinn Peterson

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Education:

California Polytechnic State University - San Luis Obispo

- Major: Computer Science | Junior Standing
- GPA: 3.93

Relevant Coursework:

- Data Structures, Fundamentals of Computer Science
 - Linear Algebra, Calculus IV
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Work Experience:

Computational Neurobiology Lab, Salk Institute for Biological Studies

Programmer Analyst Intern (7/19-Present)

- Constructed a computer vision algorithm to detect and find the glottis in nasolaryngoscopic images using MATLAB's computer vision toolbox
- Optimized a shallow neural network to learn an automatic way to perform image segmentation on nasolaryngoscopic images
- Designed, implemented, and optimized a convolutional neural network (CNN) using MATLAB to predict severity ratings in people with Adductor Spasmodic Dysphonia
- Extracted high level edge object features to prepare lower dimensional sequences for a long short-term memory network (LSTM)
- Maintained strict documentation to facilitate architectural flexibility

Intern Team Lead (1/21-Present)

- Trained and supervised interns to annotate nasolaryngoscopic video recordings with ELAN linguistic software and MATLAB's Video Labeler app
 - Architected a data pipeline to process and prepare annotation data for analytics and machine learning in MATLAB
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Projects:

Forum Web Application (8/19-Present)

- Utilized Django to build web-based social media platform run on Python
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Additional Extracurriculars:

Vice President of Axis youth club (6/18-6/20)

- Managed club members and planned events
 - Granted hospice patients wishes by hosting events
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Volunteering Experience:

Math Tutor (9/17-3/19)

- Tutored elementary school students at Mira Mesa Library
 - Taught math to middle and high school students at Casa De Amistad
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Skills:

- MATLAB, Python | Object Oriented Programming, Bash/Shell