

# David Sillman

(References Available Upon Request)

## Contact Information

Email: [dsillman2000@gmail.com](mailto:dsillman2000@gmail.com)

Phone: (650) 933-8448

Address: 965 Valencia Avenue, Mountain View CA 94040

[GitHub](#)  
[LinkedIn](#)

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## Interests & Skills

❖ Data Visualization	(GGPlot2, Seaborn, Matplotlib, Plotly)	★★★★★
❖ Statistics	(Mainly with R & Python)	★★★★☆
❖ Web design	(React.js, Bootstrap, CSS)	★★★★☆
❖ Pure Mathematics	(Interest in dynamical systems & chaos theory)	★★★☆☆
❖ Simulation	(Usually in PyGame or Processing.py)	★★★☆☆
❖ Neural Networks	(From scratch, via TensorFlow and via Keras)	★★☆☆☆

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## Work Experience

### Data analysis intern @ Intuitive Surgical Devices, Sunnyvale CA

*May 2021 – August 2021*

- Produced an internal-use utility **GUI** application to easily label and anatomy data generated by ION PlanPoint software using **PyQt5** and **PyOpenGL**.
- Developed an internal-use web application in **React.js**, utilizing **VTK.js** to render 3D anatomy data from PlanPoint in the browser.

*May 2020 – December 2020*

- Developed a web data visualization dashboard for PlanPoint usage data built with a **Jinja** framework featuring **Plotly Dash** visualizations.
- Compiled reports pertaining to clinical **statistics** and UI/UX insights derived from ION data, frequently accompanied with visualizations built in **R**.
- Produced an internal-use utility **GUI** application to easily read and investigate ION logs and other data sources with **PyQt5**.

*May 2019 – Aug 2019*

- Labeled anatomical contents of CT volumes for use as lung segmentation training data for the ION system.

### IT Service Technician @ Purdue University, West Lafayette IN

*August 2018 – August 2020*

- Managed & responded to tech service tickets
- Configured & imaged computers
- Assigned permissions for software on college computers

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## Education

Purdue University, West Lafayette IN

*Bachelor of Science – BS, Data Science & Mathematics (Double Major)*

*August 2018 – Present*

- Secretary of Purdue Undergraduate Philosophy Club and active participant in Mathematics club.
- On-campus work during first and second year as an IT Service Technician for the College of Health and Human Sciences.