

Max Hoffman

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EXPERIENCE

CONTRARY CAPITAL | VENTURE PARTNER

Jan 2018 - present | St Louis, MO

- Perform diligence on software and biotech startups around the world.
- Help support local entrepreneurs in WashU and St. Louis.

HACK REACTOR | SOFTWARE ENGINEERING BOOTCAMP

May 2017-Aug 2017 | Los Angeles, CA

- 16 weeks of front and backend web-dev in JS.

TITAN SPINE | LOGISTICS OPERATOR

Sept 2016 – Feb 2017 | Mequon, WI

- Built and organized incoming/outgoing surgical instruments and sets.

RESEARCH

WASHU | RESEARCH ENGINEER

Swamidass Lab | May 2018 - present

- Predicted quantum chemical properties with graph recurrent networks (Matthew Matlocks's Wave algorithm).
- Incorporated 3d molecular geometry to improve coordinate-free graph modelling.

Wessel Lab | Aug 2017 - Dec 2017

- Applied dynamics-parsing algorithm (SINDY) to neural spike trains in mice.

POMONA COLLEGE | RESEARCH ASSISTANT

Sazinksy Lab | 2015-2016

- Cultured, purified and analyzed a biofilm protein responsible for *S. aureus* colonization/infection.

Shtylla Lab | 2015-2016

- Modeled the mitotic spindle and motor mechanics of *C. elegans* asymmetric first division.

Fryer Lab | 2013-2014

- Applied evolutionary dynamics to chemical reactions.

PROJECTS

TFLON | PYTHON

May 2018 - present | Swamidass Lab

- Contributed to Matthew Matlock's open-source "non-stick Tensorflow" helper library, designed to ease data-loading, and model-building + training + evaluation.
- Helped write multiprocessing logic to relieve pre-processing bottlenecks.

GENNUITY | SOLIDITY + NODE

Aug 2017 | Hack Reactor

- A smart contract for age-insurance, i.e. crypto-pension, i.e. crypto-tontine.

COIGN | SWIFT + FLASK

Jan 2017 - May 2017

- An iOS app to productively channel outrage politics.

EDUCATION

WASHU MEDICAL SCHOOL

2017-2018 | St. Louis, MO

On leave

POMONA COLLEGE

BA MATHEMATICS, CHEMISTRY

2012-2016 | Claremont, CA

Cum. GPA: 3.96

SKILLS

- Node web-stack
- Python data-stack
 - TF + PyTorch
- AWS cloud-stack
- Containerization tech
 - Docker + k8s + Sing.
- Dev-ops practices