

## Contact

[www.linkedin.com/in/amentch](http://www.linkedin.com/in/amentch)  
(LinkedIn)  
[www.alexment.ch](http://www.alexment.ch) (Personal)

## Top Skills

Python  
Data Analysis  
SQL

# Alex Mentch

Data Scientist at PADI  
Orange County, California Area

## Summary

An electrical engineer turned data scientist with experience in defense research and social media, I use data to define direction and solve problems. I develop a deep understanding of the problem areas I work in and enjoy building productive relationships with cross-functional partners to drive results. My tools and languages include Python, Presto, Hive, Excel, and Tableau.

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## Experience

PADI  
Data Scientist  
December 2019 - Present (4 months)  
Orange County, California Area

Facebook  
Data Scientist  
May 2014 - November 2019 (5 years 7 months)  
Seattle, WA

I've worked on the Search and News Feed product teams as a key team member involved in influencing, supporting, and driving product changes.

- Work with many cross-functional partners including product management, engineering, UX research, and design
- Set team goals and drive roadmap to achieve those goals
- Design, set up, and evaluate A/B tests
- Evaluate ranking algorithms and features
- Run exploratory analysis to discover new opportunities
- Metric development and tracking, forecasting trends, and identifying levers to move metrics
- Build and maintain ETL pipelines and metric dashboards

MIT Lincoln Laboratory  
Associate Technical Staff  
January 2012 - August 2012 (8 months)  
Group: Advanced Sensor Systems and Test Beds

- Developed models and techniques to determine aim point of missile seeker through passive radar sensing.
- Helped plan tests and collect data for multiple offsite projects.

### MIT Lincoln Laboratory

#### Summer Researcher

May 2011 - August 2011 (4 months)

Group: Ballistic Missile Defense Systems Integration

- Developed program to characterize quality of radar tracking through cluttered environments.
- Delivered analysis of current tracking techniques and framework for further testing.

### NASA Ames Research Center

#### Summer Researcher

June 2010 - August 2010 (3 months)

Group: Prognostics Center of Excellence

- Developed control interface utilizing hardware PLC in Simulink for control of an electromechanical actuator testbed.
- Contributed to control scheme research attempting to compensate for cross-coupling between opposing actuators.

### University of Idaho

#### Summer Researcher

June 2009 - August 2009 (3 months)

- Coded artificial neural network and genetic algorithm to generate adaptive walking gait for legged robot.

### Camp MayMac

#### Head Counselor

June 2008 - August 2008 (3 months)

- Led 25 person staff and oversaw weekly groups of 60-80 campers.
- Set staff schedules, handled discipline issues, improved weekly events schedule, and was generally everywhere all the time.

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## Education

### Washington University in St. Louis

B.S., M.S., Electrical Engineering · (2007 - 2011)

Zipfian Academy

Data Science · (2014 - 2014)