Adam Conn

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Work Experience:

Research Assistant: October 2015- current

- Built an automated pipeline to analyze RNA-Seq data from a sample of healthy patients of varying age in order to use the expression data to predict the age of an individual based off expression profile.
- Designed and implemented statistical models to describe plant architecture, and the plasticity of the architecture when exposed to different growing conditions using high-precision laser scanning.
- Use of game theoretic models to describe plant competition and cooperation.
- Use of many data visualizations tools. Primarily matplotlib but also some javascript frameworks and google maps API.
- Communicate research through publications, presentations, collaborations with other scientists and departments.

Research Associate: December 2009-May 2012

- Directly responsible for purifying native and recombinant proteins.
- Routinely worked with multiple cell lines (bacteria/ insect) to maintain, transform/ transfect, ferment and harvest cells.
- Created novel cDNA libraries.
- Performed a wide variety of assays including PCR, RT-PCR, SDS-PAGE, western blots, DNA-agarose gel electrophoresis, nickel/ion-exchange/size exclusion chromatography, cell toxicology and enzyme kinetic assays

Starbucks License Store Manager: May 5, 2007-January 2010

- Managed a small team of ~5 employees to design and execute world class customer satisfaction.
- Ordering and inventory, make and meet sales projections, budgeted store cost and revenue.

Education:

UC San Diego ***B.S. Degree in Bioengineering: Bioinformatics (3.4 GPA) 2015***

SAN DIEGO CITY COLLEGE ***A.A. Degree in Physics (3.9 GPA) 2012***

Publications:

- A. Conn, U.V. Pedmale, J. Chory, C.F. Stevens, S. Navlakha. "A **Statistical Description of Plant Shoot Architecture**". *Current Biology: 27(14) pg 2078-2088e3, July 6, 2017.* DOI:http://dx.doi.org/10.1016/j.cub.2017.06.009.

- A. Conn, U.V. Pedmale, J. Chory, S. Navlakha. "**High-Resolution Laser Scanning Reveals Plant Architectures that Reflect Universal Network Design Principles**" *Cell Systems: 5(1) pg 53-62, July 26, 2017.* DOI: http://dx.doi.org/10.1016/j.cels.2017.06.017

Other:

- Pursuing career path that builds models of plant migration and food production under climate change.
- 4 years coding experience with python, java, javascript, HTML, CSS, webscraping, Django.
- Annually teach a class in Biotechnology Instrumentation and lab techniques at a community college. This same class connected me to MTI Bio when I took the class in 2008.
- Upon publishing the above mentioned papers I've been approached by blog websites to write about science to a general audience.
- Active in local community groups pursuing to put pressure on government to invest in carbon free energy infrastructure.