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Orysya Stus

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EDUCATION

University of California, San Diego | La Jolla, CA
M.S. Data Science and Engineering — Jun 2018
B.S. Biomedical Engineering: Biotechnology — Jun 2016

EMPLOYMENT

Seismic Software | San Diego, California — Nov 2017 – present
Data Scientist II
- Development of shared asset identification (visual version history of content, page similarity, page change detection) event design, infrastructure, algorithms, docker containers, and APIs in production using Python.
- Development of page-level recommendations in LiveDocs (automated presentation builder) using Python.
- Own customer-facing insights, design schemas based on business objects, data quality, and develop Power BI dashboards.

Daymon Interactions | San Diego, California — Nov 2016 – Nov 2017
Data Scientist
- Forecasting revenue, predicting employee retention, and data exploration using Python.
- Development of Tableau dashboards, visualizations, and reports of client-specific KPIs.

RESEARCH

University of California, San Diego Qualcomm Institute | La Jolla, California — Jan 2017 – Oct 2017
Data Science Researcher
- Web scraped 1 million health fundraising campaigns from GoFundMe.com using Scrapy.
- Queried and visualized data to quantify funding incentives and ethical concerns using Tableau, Seaborn, and Matplotlib, text mining and text classification using multinomial Naive Bayes and NLTK, and predicting probability of funding success.

University of Washington eScience Institute | Seattle, Washington — Jun 2017 – Aug 2017
Data Science for Social Good Fellow | github.com/uwescience/TrafficCruising-DSSG2017
- Identified cruising (vehicles looking for parking and for-hire vehicles) using Seattle's traffic sensor data, develop a pipeline to store, process, and query the data, and determine the temporal and spatial differences in a Seattle cruising heatmap.

ProQinase GmbH | Freiburg, Germany — May 2016 – Sep 2016
Bioinformatician Researcher
- Data mining of public domain cell line databases using R (PharmacoGx) and development of a Cancer Cell Line Explorer in Tableau for assessing the RNA expression, mutation, and drug perturbation data of 49,273 genes and 3,768 cells.
- Establishing an interactive Tableau dashboard for customer evaluation of biochemical high-throughput data.

Engineering World Health | La Jolla, CA — Jun 2015 – Jun 2016
Synthetic Biology Researcher
- Aligned 180 sequences from 9 strains of HIV1 and identified 5 highly conserved regions of HIV1 for target identification using Biopython and designed synthetic genetic circuits for sensing HIV RNA.

Sanford Consortium for Regenerative Medicine | La Jolla, CA — Oct 2013 – Mar 2016
Stem Cell Researcher
- Utilized Python for data cleanup and machine learning to properly filter, classify, and cluster data (K-means, hierarchical)
- Analyzed 4000+ genes from microarray data, mined 15 transcription factors (TF) and their associated gene pathways profiling differentiation between cell lines, and chose 1 TF for in vitro studies

University of Applied Sciences | Bonn, Germany — Sep 2014 – Dec 2014
Stem Cell Researcher
- Derived primary mesenchymal stem cells from liposuction and bone chips and validated effectiveness of osteogenic, adipogenic, and endothelial cell differentiation through in vitro assays

PUBLICATIONS

Kanaga Arul Nambi Rajanab, Marwa Khater, Francesca Soncin, Donald Pizzo, Matteo Moretto-Zita, Jonathan Pham, **Orysya Stus**, Pooja Iyer, Veronique Tache, Louise C. Laurent, Mana M. Parast. "Sirtuin1 is required for proper trophoblast differentiation and placental development in mice." *Elsevier Placenta.* February 2018.

CONFERENCES

Alokta Chakrabarti, Daniel Feger, Frank Totzke, Sarah Umber, **Orysya Stus**, Marianne Birkle, Oliver Siedentopf, Marcel Pathe, Thomas Weber, Michael H.G. Kubbutat and Jan E. Ehlert. "Abstract B159: Exploring the functions of TAM kinases: assay development and characterization of potential therapeutics." *AACR-NCI-EORTC International Conference: Molecular Targets and Cancer Therapeutics.* January 2018.

Alokta Chakrabarti, Daniel Feger, Sarah Umber, **Orysya Stus**, Marianne Birkle, Oliver Siedentopf and Jan E. Ehlert. "Abstract 1208: Analysis of the combinatorial antiproliferative effect of pan RAF inhibitor AZ-628 and MEK1-inhibitor AZD-6244 on a large panel of tumor cell lines." *AACR Annual Meeting 2017*. July 2017.

Orysya Stus. "Low-Cost Paper-Based Genetic Circuits for Detecting HIV." *SALK IPSEN Conference: Synthetic Biology*. January 2016.

Orysya Stus, Matteo Moretto-Zita, Mana M. Parast. "Signaling through Stat1 during human cytotrophoblast differentiation down the invasive pathway." *Society for Reproductive Investigation 62nd Annual Scientific Meeting*. March 2015.

HACKATHONS

Basic Needs	github.com/OrysyaStus/basicneeds	AngelHack	Seattle, WA	**Best Use of HERE Technologies**	Jul 2017
Breaking News	newsbreakers.herokuapp.com	Global Artificial Intelligence Hackathon	Seattle, WA	**1st Place**	Jun 2017
Data Bots Unleashed	wastebotsunleashed.github.io	San Diego Women's Hackathon	San Diego, CA	**1st Place**	Apr 2017
San Diego Hearts	sandiegohearts.github.io	Big Data Hackathon	San Diego, CA	**2nd Place**	Feb 2017

FELLOWSHIPS | AWARDS | SCHOLARSHIPS

Data Science for Social Good Graduate Fellow	Data Science	Microsoft	University of Washington	Apr 2017
RISE Professional Fellow	Bioinformatics	DAAD (German Academic Exchange Service)	Mar 2016
Muir Provost's Research Scholarship	Research Proposal	University of California, San Diego	Dec 2015
Gordon Engineering Leadership Scholar	Engineering Leadership	University of California, San Diego	Jun 2015
Friends of the International Center Scholarship	Work Abroad	University of California, San Diego	May 2014
Research Internships in Science and Engineering	Research Internship	DAAD (German Academic Exchange Service)	May 2014
Qualcomm Institute Summer Undergraduate Scholar Research Program	University of California, San Diego	Mar 2014
Doris A. Howell Research Scholarship	Research Proposal	University of California, San Diego	Feb 2014

SKILL SET

Algorithms: Python (Pandas, Numpy, Scipy, Matplotlib, Seaborn, Scrapy), Tensorflow, R
Databases: Relational databases (PostgreSQL, MS SQL Server, SQLite)
BI Tools: Tableau, Power BI
Other: Git, Docker, Spark

CERTIFICATIONS

Deep Learning Specialization	deeplearning.ai	Coursera	May 2019
Tableau Server 10 Qualified Associate	Tableau Software	Jun 2017
Data Mining	University of California, San Diego	Extension	Jul 2016
Python	University of Michigan	Coursera	Dec 2015