

JACK DIGIOVANNA

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SKILLS

- **Leadership:** Developed and led distributed, multidisciplinary teams. Influenced throughout the company without direct authority. Motivated my team to deliver and grow.
- **Communication:** Distilled complex technical or scientific content into clear, engaging talks and pitches. Empathetic, team-focused personality helps me foster collaboration and development.
- **Problem Solving:** Quick learner with an engineering mindset, e.g. I delivered a well-received lecture at a genomics conference within six months of joining Seven Bridges - I had no prior genomics knowledge.
- **Machine Learning:** Invented a neuroprosthetic controller using reinforcement learning, which co-adapted with the users. Discovered discriminating features in high-dimensional, physiological time series.

RECENT EXPERIENCE

Seven Bridges Genomics

Oct 2018 - present

Program Director; SVP

- Built and led a multi-disciplinary, distributed team of program managers, principal investigators, engineers, and community engagement managers. Empowered and supported team members.
- Set strategic direction to develop differentiating capabilities for data analysis and distribution ecosystems.
- Aligned product development across four major and multiple minor programs such that new capabilities achieved maximum impact both locally and across the Seven Bridges ecosystem.
- Maintained and developed new opportunity pipeline through (i) triage and response to RFPs; (ii) development of strategic partnerships and relationships to shape new opportunities; (iii) active engagement in the scientific community (e.g. talks, abstracts, reviewing, etc)
- Served as a co-chair for the NIH System Interoperability working group, which will facilitate interoperability between data portals / analysis platforms across four ICs via policy and technical improvements.

General Manager; SVP

Oct 2017 - Oct 2018

- Responsible for product and development strategy, customer relations and success, and driving innovation and value within the Diagnostic and Clinical space
- Co-developed and implemented processes to improve product development; including quantifying business impact, resource allocation, and return on investment
- Maintained and developed sales pipeline through multiple methods spanning cold-calls to onsite demonstrations with client leadership to shaping and developing multi-million dollar proposals.
- Refined Seven Bridges pricing model based on existing client usage and historical growth. Created a model that aligned our financial interests with the clients while also providing clear revenue growth.

Director of Program Management

Nov 2016 - Oct 2017

- Closely collaborated with key stakeholders to curate the Seven Bridges Product Roadmap which guides a ≥ 200 member cross-functional team
- Represented the company at multiple high-level meetings and talks including invited presentations and pitches to C-Suite
- Co-developed and implemented process to improve capability prioritization, product-market fit, and go-to-market plans. Aligned product launches to external pressures and opportunities
- Led program management of Seven Bridges Sonar - a new product line for population-level variant analysis in precision medicine

Program Manager - Automation

Nov 2015 - Oct 2016

- Interacted with diverse external stakeholders, from executive level to technical staff at organizations ranging from federal governments and pharmaceutical companies to academic, nonprofit and biotechs.
- Researched, understood, and prioritized the user needs. Curated this information and incorporated it into the Product Roadmap
- Presented scientific and technical aspects of our products at conferences.

Translational Neural Engineering Lab; EPFL

2012-2015

Senior Scientist

Lausanne, Switzerland

- Innovated research directions through supervision of three PhD students. Led development of a brain- spinal interface in rats. First team to demonstrate robot control after spinal cord injury.
- Slashed clinical characterization time by modeling response to vestibular prosthetic onset, then searching over the model's parameter space. This search would have been infeasible in patients.

CLONS (vestibular prosthetic)

2009-2013

Project Manager

Zurich, Switzerland

- Coordinated communication in a distributed team of academic, clinical, and industrial partners via wikis, project meetings, and Gantt charts. Directly responsible for 400k portion of budget.
- Consortium developed technologies that advanced the state of the art from animal models prototypes to acute clinical testing (first in the world) of vestibular prosthetics in human patients.

Neuroprosthetics Control Group; ETH Zurich

2009 - 2012

Postdoctoral Researcher

Zurich Switzerland

- Designed, executed, and analyzed experiments to test cortical activation preceding movement. Provided crucial support for rehabilitated rats regaining control after spinal cord injury.
- Established chronic extracellular recording capabilities and infrastructure for closed-loop neuroprosthetic control. This dramatically expanded the labs research possibilities.

EDUCATION

The University of Florida

Dec 2008

PhD in Biomedical Engineering

The Pennsylvania State University

Dec 2002

BS in Electrical Engineering

PATENT

J. DiGiovanna et al., System and method for BMI control using reinforcement learning, US Patent No. US20100137734 A1. [\[link\]](#) Priority date: 2007. Issue date: June 2015.

SELECTED PUBLICATIONS

I have >35 peer-reviewed journal or conference publications. Complete [list](#) with links to full-texts.

- JW Lau, E Lehnert, A Sethi, R Malhotra, G Kaushik, Z Onder, N Groves-Kirkby, A Mihajlovic, **J DiGiovanna**, et al., The Cancer Genomics Cloud: Collaborative, Reproducible, and Democratized A New Paradigm in Large-Scale Computational Research *Cancer Res*; 77(21); e36
- R. van den Brand*, J. Heutschi*, Q. Barraud, **J. DiGiovanna**, et al., Restoring Voluntary Control of Locomotion after Paralyzing Spinal Cord Injury *Science*, vol 336, pp. 1182-1185, 2012

SELECTED INVITED TALKS

Video is linked for the two talks below. Complete list on my [website](#).

- Wolfram Data Summit: [Leveling the Playing Field for Cancer Genomics](#) Fairfax VA (Sept 22 2016)
- Festival of Genomics: [Precision Medicine in the Million Genome Era](#) Boston MA (June 29, 2016); San Diego CA (Sept 20, 2016)