JOHN "JACK" DIGIOVANNA

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SKILLS

- **Leadership:** Developed and led distributed, multidisciplinary teams. Influenced company-wide initially without direct authority, currently provide executive leadership across multiple engagements.

- **Communication:** Distilled complex technical or scientific content into clear, engaging talks and pitches. Empathetic, team-focused personality helps me foster collaboration and development.

- **Data Science:** Invented a neuroprosthetic controller using reinforcement learning which co-adapted with the users. Nine years direct experience in applied ML, continuously followed the field since then.

- **Problem Solving:** Quick learner with an engineering mindset, Product Management influenced focus on understanding core needs, getting feedback often, and continuously improving.

- **Business Development:** Developed partnerships and business models to position our organization for success in engagements ranging from services, to analysis ecosystems, to monetizing data assets.

RECENT EXPERIENCE

Velsera (formerly Seven Bridges)   Nov 2022 - present
Head of Science Strategy; SVP
- Continued leading and shaping team of program managers and data scientists responsible for Global Health Initiatives (e.g. Cancer Genomics Cloud, Kids First, BioData Catalyst, PanCAN).
- Responsible for scientific strategy across academic, non-profit, biotech, and pharmaceutical sectors.
- Drove key strategic, cross-functional initiatives on Velsera's *Senior Leadership Team.*

Seven Bridges   Nov 2021 - Oct 2022
General Manager - Public Sector; SVP
- Expanded role to full P&L responsibilities for over 1/3rd of Seven Bridges revenue. Business unit included 15 people (our department) with 105 people total (matrix).
- Drove revenue growth, e.g. 300% increase in revenue from 2018-2021; expect to grow 2022 revenue by ¿ 25% over target. Built robust pipeline, e.g. exceeding 2021 bookings targets by over 40%.
- Drove an agile transformation and reorg across Seven Bridges (approx 330 employees). Key outcomes: i) establishing our business unit as an incubator and innovation center; ii) increasing synergies; iii) reducing context switching; iv) continued evolution from waterfall towards agile.
- Grew team to leverage strengths & build capacity to meet future needs and opportunities. Collaborated with business and technical leads company-wide to evolve the entire business unit for success.
- Engaged continuously with key stakeholders, e.g. serving as a co-chair for the NIH System Interoperability working group, which facilitates interoperability between analysis ecosystems across the NIH.
- Led key engagements directly. Served as Principal Investigator for multiple data ecosystems (two $\geq$ 1.5M ACV) to set strategic direction, represent the project to stakeholders, and drive progress.

Program Director; SVP   Oct 2018 - Nov 2021
- 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 such that new capabilities achieved maximum impact both locally and across the Seven Bridges ecosystem.
- Developed opportunity pipeline through (i) triage and response to RFPs; (ii) development of strategic partnerships and relationships to shape new opportunities; (iii) active scientific community engagement.

Lead - Diagnostics; VP   Oct 2017 - Oct 2018

- Responsible for strategy, customer relations and success, and innovation within the Diagnostic sector.
- Refined Seven Bridges pricing model to align financial interests with current and future clients.

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.
- 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.
- 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.

Program Manager - Automation   Nov 2015 - Oct 2016
- Researched, understood, & prioritized the user needs. Curated this info into the Product Roadmap.

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.

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.

EDUCATION

The University of Florida PhD in Biomedical Engineering   *Dec 2008*

The Pennsylvania State University BS in Electrical Engineering   *Dec 2002*

ADVISORY BOARDS

NCI Imaging Data Commons External Advisory Board   *since 2022*

University of Florida Biomedical Engineering Alumni Advisory Board   *since 2019*

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

Complete list of >50 peer-reviewed journal or conference publications (h-index = 21) with linked full-texts.

- LD Hughes, G Tsueng, **J DiGiovanna**, et al., "Addressing barriers in FAIR data practices for biomedical data" Scientific Data 10(98) 2023

- JW Lau, E Lehnert,... , **J DiGiovanna**, et al., The Cancer Genomics Cloud: Collaborative, Reproducible, and Democratized A New Paradigm in Large-Scale Computational Research Cancer Res; 77(21) 2017

RECENT TALKS

More complete list with video links where available.

- NIH AD/ADRD Platforms FAIRness: Session Chair - Current NIH Data Ecosystems (June 2023)

- Discovery & Diagnostics Summit: Connecting teams & data to deliver insights Boston MA (May 2023)