DARYA VANICHKINA

DATA SCIENTIST PHD

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📍 Sydney NSW

🛂 Australian citizen

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SKILLS

Communication Training
Coaching & mentoring
Project management
Client management
Team leadership
Negotiation
Stakeholder management

TECHNICAL SKILLS

R Python SQL Unix PowerBI
Machine learning Big data
Visualisation Dashboarding
Git & GitHub Containers
Geospatial data analysis
High performance computing
AWS HTML/CSS Hugo
Genomics pipelines

EDUCATION

PhD - Genomics & Bioinformatics
University of Queensland 2016
GradCert - Higher Ed.
University of Sydney 2020
Specialist - Biochemistry
Lomonosov Moscow State
University 2010

PROFILE

PhD-qualified data scientist with **6+ years hands-on experience** in big data, machine learning & statistics, **training** & team, client & end-to-end project **management**. I am passionate about using analytics solutions to gain **actionable insights** & **leading for performance** & individual growth while supporting business goals. I am looking to join a data-driven organisation that values **excellence & mutual backing** to **learn** the business & move from an individual contributor to a management role.

EXPERIENCE

Informatics Hub, University of Sydney
Data Scientist & Analytics Trainer
FEB 2020 - PRESENT

Key responsibilities:
- Provide researchers from all faculties with analytics support via 2-12+ week data science projects.
- Coordinate training program/team that taught **2500+ learners** in 2021.

Key outcomes::
- Resolved **encoding** issues & implemented **near-duplicate detection + viz** (effectively turnitin) for **27000 articles** about obesity from 12 major Australian newspapers (*Python: spacy, pandas, gensim, datasketch, difflib*)
- Carried out **largest analysis** of responsible wagering tool use among **Australian sports betters,** with **12 million wagers from 50 000 clients** of **6 major gambling operators**. Generated over 200 features, from which major insight was that opt-out limits work better to prevent harms than opt-in ones - picked up by wagering **media** worldwide. Co-authored 2 academic publications showcasing the results (*R: data.table, tidyverse, tidyquant, lmertest*)
- Extracted data from **undocumented** Vegmachine **API** & joined with **satellite imagery** to generate 30 years of vegetation & rain data for Simpson desert (*R: Rmarkdown,sf,raster,tmap,jsonlite;HPC*)
- **Managed** 5 projects executed by other data scientists & software engineers (*GitHub & git; GitHub projects; Jira; Confluence; Trello*)
- Built **dashboard** to showcase training, revealing that faculties were uniformly served by SIH (*PowerBI, R, Eventbrite, REDCap*)

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CERTIFICATIONS

Senior Fellow UK Higher Education
Academy - 2021
RStudio Certified Trainer 2020
Fellow UK Higher Education
Academy - 2020
First Aid Blue card/WWCC

PROFESSIONAL DEVELOPMENT

2021: RP Mentoring program
2020: Dare to Lead
2019: Quality coaching
conversations; Women in Leadership
2018: Effective communication

VOLUNTEERING

Carpentries
Instructor Trainer 2018 - current
Instructor 2014 - current
GPN Dress for Success Sydney
Wonder of Science Ambassador
ATSE 2013-2014
IMB Science Ambassador 2010-2015

REFERENCES

EXPERIENCE (CONTINUED)

Informatics Hub, University of Sydney
Data Science Group Lead (Secondment)
AUG 2019 - FEB 2020

Key outcomes:
- Led team of 4 data scientists & software engineers
- Recruited 4 data scientists. Led 1 AMP.
- Supported staff member through successfully applying for a role overseas.
- Prepared 4 approved project scopes.
- Improved processes by drafting template KPIs that map to staff position descriptions & unit aims.
- Made template repository for analytics projects, enabling docs & client communication to be integrated with actual project code.
- Improved hiring process, incorporating technical task & phone screening steps.

Informatics Hub, University of Sydney
Data Analytics Trainer
OCT 2018 - AUG 2019

- Led Data Science training program
- Developed/delivered 20+courses, including machine learning & geospatial data analysis (R & Python).
- Trained 20+ staff to deliver training.
- Built university & national partnerships in skills development.

Centenary Institute, University of Sydney
Bioinformatics Postdoctoral Research Officer
OCT 2015 - OCT 2018

- Researched intron retention by processing 5-50 Tb of genomics data using HPC/cloud. 4 publications.

Institute of Molecular Bioscience, University of Queensland
PhD Candidate & Lead Tutor
DEC 2010 - MAR 2016

- Developed a 10x better method for identifying miRNA targets & other research. Published 5 papers.
- Student association President. Established IMBar.
- Tutored 13 courses & won grant to flip activities into videos which "*saved course*" during COVID.

Karolinska Institutet, Stockholm, Sweden
Visiting researcher
SEP 2014 - DEC 2014

- Awarded Boehringer Ingelheim Travel Grant to use SciLifeLab HPC in Stockholm to study white matter development by analysing genetic data.