Fabio Zanini, PhD
Head of the Data Driven Biomedicine lab
School of Clinical Medicine
UNSW Lowy Cancer Research Centre, Level 2,
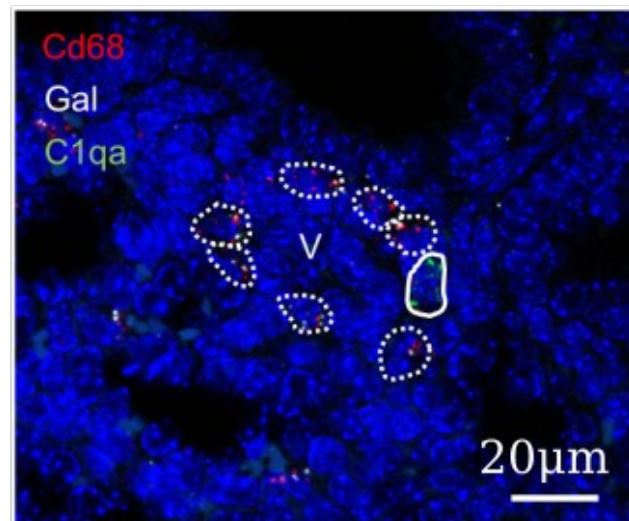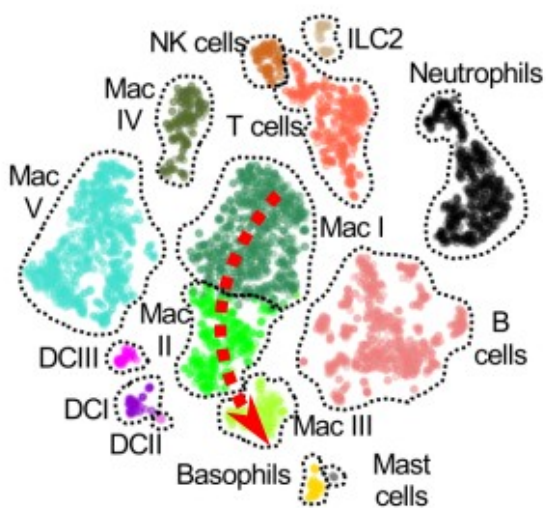Cnr High and Botany St, Kensington NSW 2033
Australia
E: fabio.zanini@unsw.edu.au
https://fabilab.org

Postdoctoral Research Fellow – Single cell and spatial data driven lung biomedicine

The Opportunity
- Full-Time, Fixed-term opportunity for 2 years with prospects for extension.
- Salary $100k/year + superannuation & leave loading
- Sydney, Australia based.
- Starting date from now, latest in October 2022.
- Applications will be considered until the position is filled.

The candidate will be based in the Zanini lab (https://fabilab.org) at UNSW Sydney in collaboration with the Alvira lab at Stanford (https://med.stanford.edu/alviralab.html), investigating lung development and disease through **computational exploration and analysis of single cell multi-omics and spatial transcriptomics data**. The candidate will combine computational analytics (e.g., data science, machine learning, graph-based single cell representations) with a passion to work with biomedical experimentalists to develop and translate algorithms into novel and interpretable biomedical discoveries.

The lab
We take an interdisciplinary approach across software engineering, data science, molecular biology, and bioengineering, with numerous international collaborators. We

work on human and plant viruses, lung development and disease, cancer, regenerative medicine, marine biology, bioinformatic software, single cell bioengineering, and graph algorithms. Check out our website at https://fabilab.org.

Skills and Experience
- A PhD in bioinformatics, computer science, physics, mathematics, or similar.
- Proficiency with at least one programming language, preferably Python.
- Experience with the command line (e.g. bash) and high-performance computing (HPC) clusters (e.g. ssh, queue submissions).
- Passion for biological systems- their complexity, redundancy, and subtleties.
- Excellent communication skills.
- Passionate, kind and supportive team player.

Bonus skills
- Experience with single cell data analysis or spatial transcriptomics.
- Experience with network/graph analyses and/or algorithms.

Diversity statement
Women and other underrepresented groups in STEM, including people of Aboriginal, Torres Strait Islander, or First Nations descent, people of colour, and members of the LGBTQ+ community are especially welcome to apply. We aim to create a culture of inclusiveness where **diversity is a strength, not a liability**.

To apply

Send an email to fabio.zanini@unsw.edu.au with:
- A motivation letter describing why you are interested in this position.
- A two page CV with three reference contacts.
- Your GitHub, Gitlab, or Bitbucket username or, alternatively, some source code highlighting your coding skills.