

Ning Liu

Ph.D in Medicine, in progress
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Bioinformatician in Training

RESEARCH EXPERIENCE

BIOINFORMATICS HUB | P.HD STUDENT

Oct. 2017 - present | Adelaide, Australia

- Investigating Topologically-associated domains (TADs) in haplotype-resolved cattle genome.

ROBINSON RESEARCH INSTITUTE | P.HD STUDENT

Oct. 2017 - present | Adelaide, Australia

- Investigating three dimensional chromosome structure in Regulatory T Cells using High-Resolution Chromosome Conformation Capture Assays (HiC-seq).
- HiC data analysis packages/pipelines development.
- eQTL pipeline development.
- Data integration packages development.

BIOINFORMATICS HUB | MASTER STUDENT

Jul. 2016 - Jul. 2017 | Adelaide, Australia

- Comparison of multiple computational analysis pipelines for HiC-seq datasets.
- Investigation of distal interactions in regulatory T cells using HiC-seq.

PUBLICATIONS & AWARDS

PUBLICATIONS

Conference Poster

Ning Liu, Timothy Sadlon, Stephen Pederson, Simon Barry & James Breen; **Investigating computational analysis pipelines and genomic proximity interactions in T lymphocytes**; ABACBS 2017 Conference and Lorne Genome 2018 Conference; November 15, 2017 and February 13, 2018

AWARDS

Travel Grant of ABACBS Conference 2018 from ABACBS.

Travel Grant of EMBL Australia PhD Course 2018 from EMBL Australia.

Outstanding Academic Achievement Award 2015 from Faculty of Sciences, University of Adelaide.

Outstanding Academic Achievement Award 2017 from Faculty of Sciences, University of Adelaide.

Membership in Golden Key International Honour Society from 2015.

EDUCATION

ROBINSON RESEARCH INSTITUTE, UNIVERSITY OF ADELAIDE, AUSTRALIA | PHD OF MEDICINE (BIOINFORMATICS)

School of Paediatrics and Reproductive Medicine, Expected October 2020 | Adelaide, SA

UNIVERSITY OF ADELAIDE, AUSTRALIA | MASTER OF BIOTECHNOLOGY (BIOMEDICAL)

School of Molecular and Microbiology Science, Completed Jul 2017 | Adelaide, SA • GPA: 6.5625/7

XIA'MEN UNIVERSITY, CHINA | BACHELOR OF SCIENCE

Major in Immunology, Biotechnology and Molecular Biology, School of Life Science | Completed Jun 2015 | Xia'men, China Major • GPA: 3.15 / 4.0

OTHER ACTIVITY

Contributor of R package **rGMAP**.

Active member of **ABACAS** since 2016.

Executive committee of **COMBINE SYMPOSIUM 2017**.

Executive committee of **COMBINE** since 2018.

Executive committee of **COMBINE SYMPOSIUM 2018**.

Member of **EMBL Australia** PhD course 2018.

LANGUAGES

PROGRAMMING

Over 2000 lines:

Shell (Bash) • Python • R • \LaTeX

SPOKEN & WRITTEN

English, Mandarin, Cantonese