

NICK STRAYER



EDUCATION

2021
|
2017

PhD. Candidate, Applied Bioinformatics

The University of Western Australia

Perth, WA

- Working on 1000+ soybean pangenome project
- Working on Amborella pangenome project

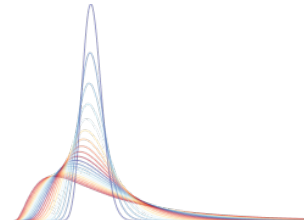
2017
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2013

B.S., Biotechnonology

The University of Western Australia

Perth, WA

- Thesis: Pangenome of rice blast fungus
- Graduate with First-class Honors



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RESEARCH EXPERIENCE

2018

Helper in programming teaching event

Research Bazaar 2018

The University of Western Australia

- Helping and organising the R programming and RNA-seq analysis skills teaching

2016

Research Assistant

Edward's Applied Bioinformatics Group

The University of Western Australia

- Develop larger dataset management skill
- Be familiar to the GBS analysis pipeline

2016
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2015

Research intern

Centre for Crop and Disease Management (CCDM)

Curtin University and Pawsey Supercomputing Center

- Working on high-throughput gene orthology calculation and phenotype-based data mining project
- Using supercomputing source to perform bioinformatics analysis

CONTACT

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[lakeseafly1](#)

<https://lakeseafly.github.io/>

(61) 0415066929

LANGUAGE SKILLS

R

Python

Bash

AWK



SELECTED PUBLICATIONS, POSTERS, AND TALKS

Pangenome of the Amborella trichopoda suggests gene

presence/absence variation is associated with environmental adaptation

Under-Review in Nature Communications(copy available upon request.)

2019

- First Author

Made with the R package
pagedown

The source code is available at

github.com/hstrayer/cv

Last updated on 2019-10-16.

2019	<p>Construction and comparison of three reference-quality genome assemblies for soybean</p> <p>The Plant Journal</p> <ul style="list-style-type: none"> • Performing the comparative genome analysis
2019	<p>Legume pangenome construction using an iterative mapping and assembly approach</p> <p>Legume Genomics Book chapter</p> <ul style="list-style-type: none"> • First Author
2018	<p>Advances in Integrating Genomics and Bioinformatics in the Plant Breeding Pipeline</p> <p>Agriculture</p> <ul style="list-style-type: none"> • First Author
2017	<p>Single-cell genomic analysis in plants</p> <p>Genes</p> <ul style="list-style-type: none"> • Writing a session of the manuscript