# JINN ASENA

Post-doctoral research associate developing and applying new statistical methods to palaeoecological data to understand ecosystem responses to environmental change. Working with Jack Williams and Tony Ives on data across North America on an NSF funded project: Abrupt Change in Ecosystems. I also like to get hands on in the field and lab.

# **EDUCATION**

2021 2017

# PhD. University of Auckland

School of Environment

• Auckland, NZ

- · PhD explored virtual ecological methods for generating pseudoproxy data to assess statistical inferences under data uncertainty.
- · Supervised by George Perry and Janet Wilmshurst

2016 2012

### **MEnv. Environmental Science**

University of York

• York, UK

· 1st class integrated masters degree in environmental science. Master's researched involved environmental monitoring using sensor networks and robotics.

# Certified Carpentries instructor

Global digital skills community

Virtual

· Certified to host and assist in running workshops from The Carpentries organisation

# SELECTED POSITIONS

Present 2022

### Post-doctoral research associate

University or Wisconsin-Madison

Madison, WI

- · NSF grant, developing state-space modelling methods to analyse palaeoeological records
- · Abrupt change in ecosystems project lead by Jack Williams and Anthony Ives

2022 2021

# Research Assistant

University of Auckland

• Auckland, NZ

· Conducting a bibliometric analysis on the topic of climate justice

2022 2021

### **Engagement Specialist**

Centre for e-Research

• Auckland, NZ

- · Engaging with researchers to provide advice and resources for their research compute needs
- · Includes technical skills for virtual machines (Linux, Bash, Slurm), high performance computing, and version control

# **I** ARTICLES AND PUBLICATIONS

2019

Guidelines for Reporting and Archiving 210Pb Sediment Chronologies to Improve Fidelity and Extend Data Lifecycle

Quaternary Geochronology

· Courtney-Mustaphi et al.

# CONTACT

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QuinnAsena

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# ONLINE RESOURCES

Workshop: Quarto for Colaboration

fisheR: R package for calculating Fisher's Information on time-series. Available at github.

app: Population growth

app: Population growth

for lecture

Lecture: Ecological

modelling

# REFERENCES

Professor Jack Williams

jwwilliams1@wisc.edu

Professor George Perry

george.perry@auckland.ac.nz

Made w/ pagedown. Source code: github.com/nstrayer/cv.

Peatland carbon stocks and burn history: Blanket bog peat core evidence highlights 2018 charcoal impacts on peat physical properties and long-term carbon storage GEO: Geography and Environment · Heinemeyer et al. Population viability analyses in New Zealand: a review 2018 New Zealand Journal of Ecology · Simpkins et al. Assessing the links between resilience, disturbance and functional traits in 2018 paleoecological datasets Past Global Changes Magazine, vol. 26(2), 87 · Hamilton et al. PACKAGES, APPS AND RESOURCES Authoring collaborative research projects in Quarto 2023 Workshop 2022 George Perry Lab · Workshop resources for hosting collaborative research projects using Git and Git Hub Interested in the lab group? · Hosted on GitHub for ResBaz 2022-2023 Visit George Perry's lab group: Spatial Ecology Group fisheR 2019 R package · Translation of python script for calculating Fisher's Information on time-series data · Code available on GitHub Williams Lab Check out the Williams lab Population growth app 2019 Shiny app · Population growth app exploring different population growth equations for educational purposes Ives Lab Population growth lecture aid app 2019 See what the Ives Lab group do · App to accompany population growth lecture and help students through population growth calculations SELECTED WORKSHOPS AND CONFERENCES BES: Palaeo in R 2022 Virtual **British Ecological Society** · Speaker on virtual ecological methods to assessing uncertainty in palaeoecological data using pseudoproxies **AGU** 2022 Ohicago, IL American Geophysical Union · Speaker on virtual ecological methods for assessing uncertainty in palaeoecological data using pseudoproxies **AMQUA** 2022 Madison, WI American Quaternary Association · Poster session on virtual ecological methods to assessing uncertainty in palaeoecological data using pseudoproxies