



Noemie Valenza - Troubat

Doctor



Professional summary

Post doctoral fellow
2023-10 - present
Institute for Behavioural Genetics, UC Boulder. USA
Statistical genetics. Using polygenic scores within families to understand vertical transmission vs. shared genetics in offspring health/behavior outcomes, and the consequences of parental health/behavioral outcomes.

Technical assistant
2023-01 – 2023-06
The Kiwifruit Breeding Center, Motueka. NZ
Post harvest assessment of phenotypic traits of kiwiberries.

Captain
2021-08 – 2021-12
All over the world
Sailing my own boat, managing a crew of 3 to 5 people, fixing and finding solutions as situations happened.

PhD
2017-06 – 2021-08
Victoria University of Wellington, Plant and Food Research Nelson. NZ
Collecting and analysing phenotypic, genomic and transcriptomic data to establish a pedigree, assess genetic parameters and analyse the effect of temperature changes on growth traits in the NZ trevally. Communicating findings, presentations, scientific papers. Providing advice to management to improve sustainability outcomes in the company.

Coordinator
2018-06 – 2020-09
Compost Club, Nelson. NZ
Coordinating volunteers for a composting charity. Delivering weekly free workshop to the local community. Funding applications, grant submissions. Working with the local council.

Masters intern
2017-01 – 2017-06
BOREA, Musée d’Histoire Naturelle, Paris. France
Studying how past climate events influenced the population distribution of a tropical goby through the analysis of mitochondrial DNA and otoliths.



Contact

Address
253 Wild Tiger Road,
80302 Boulder, CO, USA

Phone number
+1(720) 546 7182



Skills

- Written and verbal science communication
- Data analysis
- Analytical mind
- Team work
- Creativity



Awards

- Doctoral Submission Scholarship, VUW 2020
- Emerging Researcher Award, PFR 2019
- Science Communication Award, PFR 2019
- International Society for Animal Genetics Conference travel award, 2019
- Plant and Animal Genomics Conference travel award, 2019



Software

R ●●●●●

Bash ●●●●●

Python ●●●●●



Languages

English ●●●●●

French ●●●●●

Spanish ●●●●●



Education

PhD: Molecular Genetics
2017-2021
Victoria University of Wellington. NZ

M.D: Integrative Marine Biology
2015-2017
Université Pierre et Marie Curie, Paris. France

B.S: Science and Technology
2013-2015
Université Pierre et Marie Curie, Paris. France



Publications

- Evaluating new species for aquaculture: A genomic dissection of growth in the New Zealand silver trevally (*Pseudocaranx georgianus*) **N. Valenza-Troubat**; E. Hilario; S. Montanari; P. Morrison-Whittle; D. Ashton; P. Ritchie; M. Wellenreuther Evolutionary Applications 2022 DOI: [10.1111/eva.13281](https://doi.org/10.1111/eva.13281)
- Unravelling the complex genetic basis of growth in New Zealand silver trevally (*Pseudocaranx georgianus*) **N. Valenza-Troubat**; S. Montanari; P. Ritchie; M. Wellenreuther; D -J de Koning G3 2022 DOI: [10.1093/g3journal/jkac016](https://doi.org/10.1093/g3journal/jkac016)
- Differential expression analyses reveal extensive transcriptional plasticity induced by temperature in New Zealand silver trevally (*Pseudocaranx georgianus*) **N. Valenza-Troubat**; M. Davy; R. Storey; M. J. Wylie; E. Hilario; P. Ritchie; M. Wellenreuther Evolutionary applications 2022 DOI: [10.1111/eva.13332](https://doi.org/10.1111/eva.13332)
- **Thesis** Big fish, little fish: a multi-omics investigation of growth traits in silver trevally (*Pseudocaranx georgianus*–*araara*). **N. Valenza-Troubat**.
- Genetic stock structure of New Zealand fish and the use of genomics in fisheries management: an overview and outlook Y. Papa; T. Oosting; **N. Valenza-Troubat**; M. Wellenreuther; P. Ritchie New Zealand Journal of Zoology 2021 DOI: [10.1080/03014223.2020.1788612](https://doi.org/10.1080/03014223.2020.1788612)