



Professional summary

2023-10 - present

Post doctoral fellow

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.

2023-01 – 2023-06

Technical assistant

The Kiwifruit Breeding Center, Motueka. NZ

Post harvest assessment of phenotypic traits of kiwiberries.

2021-08 – 2021-12

Captain

All over the world

Sailing my own boat, managing a crew of 3 to 5 people, fixing and finding solutions as situations happened.

2017-06 – 2021-08

PhD

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.

2018-06 – 2020-09

Coordinator

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.

2017-01 – 2017-06

Masters intern

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.



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)



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

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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



Noemie Valenza - Troubat

Doctor



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