# Jonathan Sandoval-Castillo

Research Fellow MELFU: Flinders University

Yuma248.github.io



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# **PROFESSIONAL PROFILE**

I am evolutionary biologist interested on the integration of gnomic/transcriptomic and ecological data to better understand evolutionary processes. My main focus is the development of bioinformatic tools to tackle research question of significant relevance in conservation management, ecology and evolution.

### **EDUCATION**

PhD: Biological Sciences Macquarie University, Australia.

2012

**Msc: Marine Ecology.** 

CICESE, Mexico.

2005

BSc: Marine Biology. (Summa cum laude) UABCS.

2001

### **EXPERIENCE**

#### Molecular Ecology Lab, Flinders University

Research Fellow

2011 - present

- Provide bioinformatic support and advice to all project in the lab.
- Analysis of genomic, morphological and experimental data
- Development of bioinformatic pipelines for the analysis of genomic

#### **Molecular Ecology Lab, CICESE**

Research Assistent

2001-2007

• Analysis of genetic data of several marine commercially important species.

# **SKILLS**

#### General

- · Critical thinking
- Data Generation/Analysis
- **Bioinformatics**
- Independent learning

### Codding

- Perl
- Bash
- Python
- Conda

## LANGUAGES

Spanish: Native language

English: Advanced

Portugues:

Intermediate

### **PUBLICATIONS**

Selected from >50 total

Brauer, C. J., Sandoval-Castillo, J., Gates, K., Hammer, M. P., Unmack, P. J., Bernatchez, L. & Beheregaray, L. B. (2023). Natural hybridization reduces vulnerability to climate change. Nature Climate Change. 13(3) 282-289.

Sandoval-Castillo J., Gates, K., Brauer, C. J., Smith, S., Bernatchez, L., & Beheregaray, L. B. (2020). Adaptation of plasticity to projected maximum temperatures and across climatically defined bioregions. PNAS 117, 17112-17121

Teske, PR, Sandoval-Castillo J, Golla TR, Emami-Khoyi A, Tine M, von der Heyden S, Beheregaray LB (2019) Thermal selection as a driver of marine ecological speciation. Proceedings of the Royal Society of London B 286: 20182023.

Sandoval-Castillo J, Robinson N, Hart A, Strain L, Beheregaray LB (2018) Seascape genomics reveals adaptive divergence in a connected and commercially important mollusc, the greenlip abalone (Haliotis laevigata), along a longitudinal environmental gradient. Molecular Ecology 27, 1603-1620.