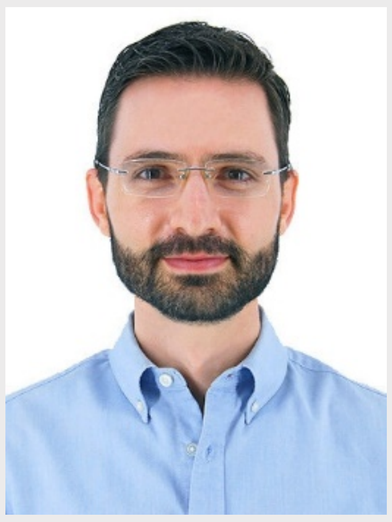

Igor Cavallini Johansen

Bachelors degree in Sociology, Masters and PhD. in Demography
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UNICAMP

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Research topics

* Social and environmental consequences of **hydropower dams** in the **Brazilian Amazon**;
* **Energy justice**: sustainable energy sources for off-grid populations in the Brazilian Amazon;
* **Health** as an indicator of the interactions between population and environmental dynamics;
* Dengue fever, malaria, food insecurity, and **energy insecurity**;
* Geoprocessing, **spatial analysis**, and surveys.

Recent projects

* **"After hydropower dams:** social and environmental processes that occur after the construction of Belo Monte, Jirau and Santo Antonio in the Brazilian Amazon" (Funder: FAPESP, Brazil. PI: Emilio Moran);
* "**Convergence for Innovative Energy Solutions:** empowering off-grid communities with sustainable energy technologies" (Funders: National Science Foundation and Mott Foundation, USA. PI: Emilio Moran).

Planned research themes

* Social, environmental and demographic consequences of **energy transition** in Brazil;
* The link between illegal **mining** in the Brazilian Amazon and local **population health**;
* **Public policies** to improve population wellness in the Brazilian Amazon: investing in forest preservation and population development.

Motivations

* Tackle **social inequalities**;
* Moving forward the **environmental preservation agenda** side by side with **population development** (health, urban infrastructure, energy, food security, etc.);
* Contribute do **science development**;
* **Communicate research** to broader audiences.

Some publications

* BROWN, E.; et al. Feasibility of hybrid in-stream generator-photovoltaic systems for Amazonian off-grid communities. **PNAS Nexus**, v. 1, 2022.
* JOHANSEN, I. C.; et al. Cohort profile: the Mâncio Lima cohort study of urban malaria in Amazonian Brazil. **BMJ Open**, v. 11, p. e048073, 2021.
*JOHANSEN, I. C.; et al. Human mobility and urban malaria risk in the main transmission hotspot of Amazonian Brazil. **PLoS One**, v. 15, p. e0242357, 2020.

Conducting fieldwork in riverine communities in Rondônia state, Brazilian Amazon, November 2021

Questions and challenges related to a sustainable and inclusive Amazon and possible venues for cooperative work

* **Brazilian Amazon**: worldwide concern in terms of environmental preservation. Needed attention to **populations who occupy the region**, usually exposed to the most precarious access to health, infrastructure and income in the country;
* The Amazon concentrates the highest remaining **hydropower potential** in Brazil. Will we continue building large dams to send energy to the regions that concentrate economic development in the country?
* What is the most **sustainable energy source** to take place in the Amazon for the local populations?

Complete CV:

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