

ARTUR DAMIÃO

Mestrando em Sociologia pela FFLCH/USP, com foco em análise quantitativa de dados sociais. Bacharel em Ciências Sociais pela mesma instituição, foi bolsista FAPESP no Núcleo de Estudos da Violência (NEV/USP), onde realizou pesquisa no campo da Sociologia da Violência. Atuou no Laboratório de Ciências Sociais Experimentais e Computacionais (CSEX/USP), desenvolvendo monitoramento legislativo para fortalecimento de OSCs, com aplicação de técnicas de ciência de dados. Sua experiência inclui o uso de métodos estatísticos avançados e ferramentas computacionais para investigação de fenômenos sociais complexos.

FORMAÇÃO

Current
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2025

Mestrando em Sociologia

Universidade de São Paulo

📍 São Paulo, SP

- Dissertação: **Padrões de atuação das polícias e a apreensão de adolescentes no Município de São Paulo: explorações teórico-metodológicas**
- Pesquisa sociológica que utiliza de georreferenciamento, análise geoespacial e dados secundários.

2024
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2021

Bacharel em Ciências Sociais

Universidade de São Paulo

📍 São Paulo, SP

- Thesis: An agent based model of Diel Vertical Migration patterns of Mysis diluviana

EXPERIÊNCIA ACADÊMICA

Current
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2015

Graduate Research Assistant

TBILab (Yaomin Xu's Lab)

📍 Vanderbilt University

- Primarily working with large EHR and Biobank datasets.
- Developing network-based methods to investigate and visualize clinically relevant patterns in data.

2025
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2022

Assistente de Pesquisa

Laboratório de Pesquisa Social

📍 Universidade de São Paulo

- Pesquisador no Programa de Educação Tutorial (PET/Sociais), elaborando **surveys** e analisando dados quantitativos.

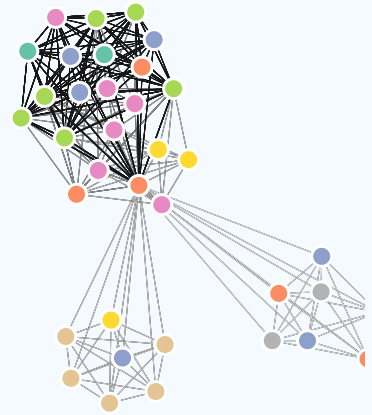
2018
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2017

Data Science Researcher

Data Science Lab

📍 Johns Hopkins University

- Building R Shiny applications in the contexts of wearables and statistics education.
- Work primarily done in R Shiny and Javascript (node and d3js).



Veja este CV online com links em nickstrayer.me/datadrivencv/

CONTACT

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🌐 arturdamiao.netlify.app

🆔 orcid.org/0000-0002-8628-1653

LANGUAGE SKILLS

R

Python

SQL

2015
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2013

Undergraduate Researcher

Rubenstein Ecosystems Science Laboratory

📍 University of Vermont

- Analyzed and visualized data for CATOS fish tracking project.
- Head of data mining project to establish temporal trends in population densities of *Mysis diluviana* (Mysis).
- Ran project to mathematically model the migration patterns of Mysis (honors thesis project.)

2015

Human Computer Interaction Researcher

LabInTheWild (Reineke Lab)

📍 University of Michigan

- Led development and implementation of interactive data visualizations to help users compare themselves to other demographics.

2014
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2013

Undergraduate Researcher

Bentil Laboratory

📍 University of Vermont

- Developed mathematical model to predict the transport of sulfur through the environment with applications in waste cleanup.



EXPERIÊNCIA PROFISSIONAL

Current
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2024

Principal Software Engineer

Posit

📍 Remote

- Working on all things up and down the stack of the Positron data science IDE.

2024
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2023

Senior Software Engineer

Posit

📍 Remote

- Creator and lead developer of the ShinyUiEditor low-code tool for building Shiny applications with a drag-and-drop interface

2023
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2020

Software Engineer

Posit

📍 Remote

- Helping make programming web applications with R easier and more beautiful on the Shiny team
- Helped create and release Shiny for Python. A ground-up rewrite of the Shiny app development platform for Python.

2016

Data Journalist - Graphics Department

New York Times

📍 New York, New York

- Reporter with the graphics desk covering topics in science, politics, and sport.
- Work primarily done in R, Javascript, and Adobe Illustrator.

2015

Engineering Intern - User Experience

Dealer.com

📍 Burlington, VT

- Built internal tool to help analyze and visualize user interaction with back-end products.

- 2015
 - Data Science Intern**
 Dealer.com
 - Worked with the product analytics team to help parse and visualize large stores of data to drive business decisions.
- 2015
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2014
 - Data Artist In Residence**
 Conduce
 - Envisioned, prototyped and implemented visualization framework in the course of one month.
 - Constructed training protocol for bringing third parties up to speed with new protocol.
- 2014
 - Software Engineering Intern**
 Conduce
 - Incorporated d3js to the company's main software platform.



EXPERIÊNCIA DE ENSINO

- 2020
 - Javascript for Shiny Users**
 RStudio::conf 2020
 - Served as TA for two day workshop on how to leverage Javascript in Shiny applications
 - Lectured on using R2D3 package to build interactive visualizations.¹
- 2019
 - Data Visualization Best Practices**
 DataCamp
 - Designed from bottom up course to teach best practices for scientific visualizations.
 - Uses R and ggplot2.
 - In top 10% on platform by popularity.
- 2019
 - Improving your visualization in Python**
 DataCamp
 - Designed from bottom up course to teach advanced methods for enhancing visualization.
 - Uses python, matplotlib, and seaborn.
- 2018
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2017
 - Advanced Statistical Learning and Inference**
 Vanderbilt Biostatistics Department
 - TA and lectured
 - Topics covered from penalized regression to boosted trees and neural networks
 - Highest level course offered in department

- 2018 • **Advanced Statistical Computing**
Vanderbilt Biostatistics Department 📍 Nashville, TN
 - TA and lectured
 - Covered modern statistical computing algorithms
 - 4th year PhD level class
- 2017 • **Statistical Computing in R**
Vanderbilt Biostatistics Department 📍 Nashville, TN
 - TA and lectured
 - Covered introduction to R language for statistics applications
 - Graduate level class

IMPRENSA

- 2017 • **Great paper? Swipe right on the new ‘Tinder for preprints’ app²**
Science
 - Story of the app Papr³ made with Jeff Leek and Lucy D’Agostino McGowan.
- 2017 • **Swipe right for science: Papr app is ‘Tinder for preprints’⁴**
Nature News
 - Second press article for app Papr.
- 2016 • **The Deeper Story in the Data⁵**
University of Vermont Quarterly
 - Story on my path post graduation and the power of narrative.

PUBLICAÇÕES, POSTERS E TALKS

- 2015 • **Asymmetric Linkage Disequilibrium: Tools for Dissecting Multiallelic LD**
Journal of Human Immunology
 - Authored with Richard Single, Vanja Paunic, Mark Albrecht, and Martin Maier.
- 2015 • **An Agent Based Model of Mysis Migration⁶**
International Association of Great Lakes Research Conference
 - Authored with Brian O’Malley, Sture Hansson, and Jason Stockwell.

LINKS

1: http://nickstrayer.me/js4shiny_r2d3/slides

- 2: <https://www.sciencemag.org/news/2017/06/great-paper-swipe-right-new-tinder-preprints-app>
- 3: <https://jhubiostatistics.shinyapps.io/papr/>
- 4: <https://www.nature.com/news/swipe-right-for-science-papr-app-is-tinder-for-preprints-1.22163>
- 5: <https://www.uvm.edu/uvmnews/news/deeper-story-data>
- 6: <https://www.semanticscholar.org/paper/An-Agent-Based-Model-of-the-Diel-Vertical-Migration-Strayer-Stockwell/40493c78e8ecf22bd882d17ec99fd913ec4b9820>