

# JERÓNIMO RODRÍGUEZ-ESCOBAR

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Economist, PhD candidate in Geography and Urban Studies and adjunct instructor specializing in land systems science, with a particular focus on land cover and land use analysis. Highly skilled in integrating Earth observation, GIS, and Machine Learning for spatial modeling and analysis. Proficient in data analysis, satellite image recognition, web mapping and cartographic production, complemented by strong developer capabilities and Linux server administration. Demonstrated interdisciplinary expertise rooted in sustainability, conservation, and resource management, developed through comprehensive academic training.

## EDUCATION

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### **PhD, Geography and Urban Studies**

*Temple University, Expected May 2024*

Dissertation: "Commodity Investment and Land Use Change in an Agricultural Frontier Region"

Committee: Victor Hugo Gutiérrez-Vélez, PhD (Chair), Kimberley Thomas PhD, Sanjoy Chakravorty, PhD, Mauricio Mosquera PhD.

### **MSc, Agricultural Economics.**

*Humboldt Universität zu Berlin, April 2012*

Thesis: "Groundwater Management in the Doñana Region, Andalusia-Spain"

Advisor: Andreas Thiel, PhD

### **BSc, Economics**

*Universidad Nacional de Colombia, August 2006*

## PROFESSIONAL EXPERIENCE

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### **Graduate Student Researcher, RSENSUS - Remote Sensing for Sustainability Lab**

*Department of Geography and Urban Studies, Temple University, 2018-2023*

Projects: NASA Earth Observations for biodiversity management, Colombian Biodiversity Observation Network. Key responsibilities included land cover classification, land cover map harmonization, data management for web-based applications, and team supervision.

### **Associate Researcher, Scientific Deputy Direction**

*Instituto Alexander von Humboldt, Bogota, 2012-2016*

Role: Development of socio-ecological research projects, including funding acquisition and territorial biodiversity management.

Jerónimo Rodríguez-Escobar

**Technical Consultant, Technical Direction.**

*Colombian Coffee Growers Federation, Bogota, 2006-2007*

Role: Support drafting the Federation's Gender policy framework. Project development to provide additional income sources for coffee growing families.

**Assistant Researcher, Economic Analysis and Statistics Direction**

*CENIPALMA-Colombian Palm Oil research Center, 2006*

Role: Production cost estimation for small scale oil palm farmers in Northern Colombia.

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**TEACHING EXPERIENCE**

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**Adjunct Instructor, Geography and Urban Studies**

*Temple University, Spring Semester 2024*

Course: Digital Mapping (undergraduate level, online asynchronous). Responsibilities: video lecture production, student engagement, grading.

**Adjunct Instructor, Geography and Urban Studies**

*Temple University, Fall Semesters 2019-2022 & 2023*

Course: Development and Globalization (undergraduate level). Responsibilities: course design, quizzes/exams development, student engagement.

**Teaching Assistant, Geography and Urban Studies**

*Temple University, Aug 2016-May 2019*

Assisted in Digital Mapping and Sustainable Environments courses.

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**SOFTWARE DEVELOPMENT AND IMPLEMENTATIONS**

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- **Land Cover Change Model for the Colombian Orinoquia:** Data gathering and classification workflow development. [[https://github.com/Cumaribo/LC\\_orinoquia](https://github.com/Cumaribo/LC_orinoquia)]
- **Forest Cover Harmonization:** Global forest cover product comparison and harmonization workflow. [[https://github.com/Cumaribo/Forest\\_homologation](https://github.com/Cumaribo/Forest_homologation)]
- **Biotablero Implementation:** Support for web application deployment and maintenance. [[https://github.com/Cumaribo/biotablero\\_api](https://github.com/Cumaribo/biotablero_api)]

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**PROFESSIONAL TRAINING**

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- Graduate Student Workshop on Socio-Environmental Synthesis, SESYNC, Annapolis, MD, Jan 2018.
- Regional Development by Sustainable Use of Biodiversity, JICA-Japanese International Cooperation Agency, Nagoya, Japan, June 2014.

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**PROFESSIONAL AFFILIATIONS**

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American Geophysical Union, 2019-Present

Jerónimo Rodríguez-Escobar

American Association of Geographers, 2016-2018

## LANGUAGES

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**Spanish:** Native

**English:** Fluent

**German:** Fluent

**French:** Fluent

## COMPUTER SKILLS

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- Programming: Bash, R, JavaScript, SQL, Git, Perl
- Applications: QGIS, ArcGIS, SNAP.
- Platforms: GitHub, AWS, Google Earth Engine

## PUBLICATIONS

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### ***Journal Publications***

Gutierrez-Velez, V. H., Rodriguez-Escobar, J., Lara, W., & Sarmiento-Giraldo, V. (2021). Probabilistic approximation to change and no change in multispectral remote sensing. *International Journal of Remote Sensing*, 42(19), 7428–7453.

<https://doi.org/10.1080/01431161.2021.1958391>

Wiese, D., Rodriguez-Escobar, J., Hsu, Y., Kulathinal, R. J., & Hayes-Conroy, A. (2018). The fluidity of biosocial identity and the effects of place, space, and time. *Social Science & Medicine* (1982), 198, 46–52. <https://doi.org/10.1016/j.socscimed.2017.12.023>

### ***Book Chapters:***

Rodríguez, J., & Stefano, L. D. (2012). *Intensively irrigated agriculture in the north-west of Doñana*. <https://doi.org/10.1201/b13078-27>

Rodríguez Escobar, J. (n.d.). *Agricultura, gobernanza y biodiversidad | Biodiversidad 2014*.

Retrieved September 13, 2022, from

<http://reporte.humboldt.org.co/biodiversidad/2014/cap3/303/>

### ***Other Publications***

Pulido Mojica, D. E., Rodríguez-Escobar, J., & Andrade-Pérez, G. I. (2016). Revisión bibliográfica a la gestión integral de los recursos hídricos y las iniciativas de protección de ríos a nivel. *reponame: Repositorio Institucional de Documentación Científica Humboldt*.  
<http://repository.humboldt.org.co/handle/20.500.11761/9895>

### **PRESENTATIONS**

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Rodriguez Escobar, J, Gutierrez-Vélez, V.H., Blair, M (2023, May 9) *Comparison of Land Cover Mapping Methodologies to Detect Ecosystem Change In Conservation Areas In The Eastern Savannas Of Colombia*. NASA Carbo Cycle and Ecosystem Joint Science Workshop & Science Team Meeting, College Park, MD.

Rodriguez Escobar, J., Gutierrez-Velez, V. H., & Lara, W. (2021, December 13). *Harmonizing Global Forest Cover Products with National Forest Assessments*. Fall Meeting American Geophysical Union, New Orleans.

Gutierrez-Velez, V. H., Lara, W., Londoño, M. C., González, I., López, D., Suárez, E., & Rodriguez Escobar, J. (2020, November 12). *Integrated cloud infrastructure for biodiversity monitoring and decision making at the national and regional levels*. Fall Meeting American Geophysical Union.

Gutierrez-Velez, V. H., Lara, W., Rodriguez Escobar, J., Marcus, M., & Topete, C. (2019, December 9). *Automated time-series mapping of ecosystem extent via optimized relative radiometric normalization*. Fall Meeting American Geophysical Union, San Francisco, CA.

Rodriguez Escobar, J., & Gutierrez-Velez, V. H. (2019, October 12). *Multi temporal assessment of*

*agriculture-driven land cover change in tropical savannas; the Colombian Altillanura.* Fall Meeting American Geophysical Union, San Francisco, CA.

Rodriguez Escobar, J. (2018, April 13). *Protected Landscapes. Biodiversity management beyond the protected areas approach.* Annual Meeting, American Association of Geographers, New Orleans, LA.

Rodriguez Escobar, J. (2018, February 28). *Farmland acquisition in the plains of eastern Colombia as a form of capital accumulation.* DOPE-Dimensions of Political Ecology, Kensington, KY.