

NICOLÁS CASTRO-PERDOMO

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Address: 1001 E 10th St, 47405 Bloomington, Indiana, USA.

EDUCATION

Indiana University PhD. in Geological Sciences GPA: 4.0/4.0	Bloomington, United States <i>August 2022 - Present</i>
King Abdullah University of Science and Technology M.S. in Earth Science and Engineering GPA: 3.85/4.0	Thuwal, Saudi Arabia <i>December, 2019</i>
Universidad Nacional de Colombia B.S. in Geology · Honors Degree GPA: 4.4/5.0	Bogotá, Colombia <i>September, 2017</i>

RESEARCH EXPERIENCE

Graduate Student Researcher Indiana University Advisor: Kaj Johnson	Bloomington, USA <i>August, 2022 - Present</i>
Visiting Research Intern King Abdullah University of Science and Technology Advisor: Sigurjón Jónsson	Thuwal, Saudi Arabia <i>March, 2022 - August 2022</i>
Graduate Student Researcher King Abdullah University of Science and Technology Advisor: Sigurjón Jónsson	Thuwal, Saudi Arabia <i>August, 2017 - December, 2019</i>
Visiting Research Intern EOST, Université de Strasbourg Advisor: Frédéric Masson	Strasbourg, France <i>June, 2018 - July, 2018</i>
Visiting Research Intern Cornell University Advisor: Larry D. Brown	Ithaca, United States <i>January, 2016 - July, 2016</i>

SUMMER COURSES

International School of Physics “Enrico Fermi” Italian Physical Society Course 202: Mechanics of Earthquake Faulting	Varenna, Italy <i>July 2018 (1 week)</i>
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PUBLICATIONS

1. **Nicolás Castro-Perdomo**, Sigurjón Jónsson, Yann Klinger, Frederic Masson, Thorsten Wolfgang Becker, and Kaj Johnson, **2025**. Strain rates along the Alpine-Himalayan belt from a comprehensive GNSS velocity field. *JGR: Solid Earth*. DOI: [10.1029/2025JB031738](https://doi.org/10.1029/2025JB031738)
2. Xing Li, Sigurjón Jónsson, Shaozhuo Liu, and Zhangfeng Ma, **Nicolás Castro-Perdomo**, Simone Cesca, Frédéric Masson, and Yann Klinger, **2024**. Resolving the slip-rate inconsistency of the northern Dead Sea fault. *Science Advances*. DOI: [10.1126/sciadv.adj8408](https://doi.org/10.1126/sciadv.adj8408)
3. **Nicolás Castro-Perdomo**, Renier Viltres, Frédéric Masson, and Yann Klinger, Shaozhuo Liu, Maher Dhahry, Patrice Ulrich, Jean-Daniel Bernard, Rémi Matrau, Abdulaziz Alothman, Hani Zahran, Robert Reilinger, P Martin Mai, and Sigurjón Jónsson, **2022**. Interseismic Deformation in the Gulf of Aqaba from GPS Measurements. *Geophysical Journal International*. DOI: [10.1093/gji/ggab353](https://doi.org/10.1093/gji/ggab353)

HONORS AND AWARDS

Graduation with honors

Universidad Nacional de Colombia

Bogotá, Colombia

September, 2017

Class rank: 1/40 (Top 5%)

Universidad Nacional de Colombia

Bogotá, Colombia

September, 2017

First place award

6th Annual undergraduate research poster competition

Thuwal, Saudi Arabia

January, 2017

Nexo Global - Colciencias scholarship

Research internship at Cornell University

Ithaca, United States

January, 2016

Tuition fee waiver

Universidad Nacional de Colombia

Bogotá, Colombia

2013 - 2017

SKILLS

Computer Skills

Programming: Python, MATLAB, Bash, Julia (learning)

GNSS data analysis: GAMIT/GLOBK, CATS, HECTOR

Others: HPC-SLURM, PSGRN/PSCMP, TDEFNODE, GMT, LATEX

OS: GNU/Linux, MacOS, Windows

Language Skills

Spanish: First language

English: C1 - IELTS 7.0

FIELDWORK EXPERIENCE

Geodetic survey

Surveyed 30 campaign GNSS stations

Gulf of Aqaba, Saudi Arabia

March-April 2022 (2 weeks)

Drone survey

Collaborated in the acquisition of drone imagery

Húsavík, Iceland

July 2018 (1 week)

CorNET seismic network servicing

Collected data from 3 seismic stations

Ithaca, United States

June, 2016 (2 days)