

# Diego Bravo



Bogotá, Colombia  
☎ +57 (300) 451 3232  
✉ dbravoh@unal.edu.co

## Personal Information

Date of Birth **October 4, 1991.**  
Place of Birth **Málaga (Santander), Colombia.**  
Citizenship **Colombiano.**

## Education

2023-Present **Ph.D. Student in Electrical Engineering.**  
University: Universidad Nacional de Colombia, Bogotá, Colombia.  
2017-2020 **M.Sc. in Biomedical Engineering.**  
University: Universidad Nacional de Colombia, Bogotá, Colombia.  
2009-2014 **Mechatronic Engineering, University: Universidad Militar, Bogotá, Colombia.**

## Awards & recognitions

Distinction **Best Paper Award**, *Congreso Nacional de Gastroenterología*, Asociación Colombiana de Asociaciones del Aparato Digestivo, November 4, 2023. Bogotá, Colombia.  
Distinction **Honorable mention (Mención meritoria)**, *Master's degree in Biomedical Engineering.*, presented in School of Medicine at Universidad Nacional de Colombia, November 3, 2020. Bogotá, Colombia.  
Distinction **Best Poster Award**, *Congreso Nacional de Gastroenterología*, Asociación Colombiana de Gastroenterología, January 8, 2020. Bogotá, Colombia.  
Distinction **M.Sc. in Biomedical Engineering**, *The best grades average*, University: Universidad Nacional de Colombia, 2017-2018.

## Research Experience

2019-Present **Research Assistant**, at *Universidad Nacional*, Director: *Eduardo Romero, MD. Ph.D.* Computer Imaging and Medical Applications Laboratory (Cimalab).  
2021-2022 **Research student**, at *Universidad Nacional de Colombia*, Bogotá, Colombia.  
2020-2022 **Research**, Departamento Administrativo Nacional de Estadística (DANE), Colombia.

## Work Experience

2023-Present **Research Assistant**, at *Universidad Nacional de Colombia*, Bogotá, Colombia.  
2021-2022 **Assistant Professor**, at *Universidad Militar*, Bogotá, Colombia.  
2014-2017 **Engineer**, at *Pharmaceutical Laboratory*, Bogotá, Colombia.  
2014-2014 **Research Assistant - Undergrade**, at *Universidad Militar*, Bogotá, Colombia.

## Publications

Journal **Diego Bravo**, Juan Frias, Felipe Vera, et.al., *GastroHUN an Endoscopy Dataset of Complete Systematic Screening Protocol for the Stomach*, Scientific Data - Nature, Nature Publishing Group UK London, 2025.

- Conference **Diego Bravo**, Sebastian Medina, Josué Ruano, et.al., *Automatic Endoscopy Classification by Fusing Depth Estimations and Image Information*, ISBI2024, Athens, Greece, May 2024.
- Conference Josué Ruano, **Diego Bravo**, Diana Giraldo, et.al., *Estimating Polyp Size From a Single Colonoscopy Image Using a Shape-From-Shading Model*, ISBI2024, Athens, Greece, May 2024.
- Conference María Jaramillo, **Diego Bravo**, Josué Ruano, et.al., *Predicting Metaplasia in Upper Gastrointestinal Images from White Light Endoscopy*, ISBI2024, Athens, Greece, May 2024.
- Conference **Diego Bravo**, Sebastian Medina, Josué Ruano, et.al., *Automated Anatomical Classification and Quality Assessment of Endoscopy by Temporal-Spatial Analysis*, SIPAIM2023, Mexico City, Mexico, November 2023.
- Conference Josué Ruano, **Diego Bravo**, María Jaramillo, et.al., *Generating synthetic endoscopy videos following a systematic screening protocol*, SIPAIM2023, Mexico City, Mexico, November 2023.
- Conference María Jaramillo, Josué Ruano, **Diego Bravo**, et.al., *Automatic Localization of Pancreatic Tumoral Regions in Whole Sequences of Echoendoscopy Procedures*, SIPAIM2023, Mexico City, Mexico, November 2023.
- Conference **Diego Bravo**, Josué Ruano, María Jaramillo, et.al., *Automatic Classification of Esophagogastroduodenoscopy Sub-Anatomical Regions*, ISBI2023, Cartagena, Colombia, April 2023.
- Abstract Fabian Emura, **Diego Bravo**, Josué Ruano, et.al., *ID: 3526254 A Novel Deep Learning Model to Facilitate Complete Systematic Photodocumentation During Upper GI Endoscopy*, Gastrointestinal Endoscopy, May 2021.
- Conference **Diego Bravo**, Josué Ruano, Martín Gómez, Eduardo Romero, *Automatic polyp detection and localization during colonoscopy using convolutional neural networks*, SPIE Medical Imaging 2022, Houston, Texas, United States, February 2020.
- Conference **Diego Bravo**, Josué Ruano, Martín Gómez, et. al., *Automatic polyp localization by low level superpixel features*, SIPAIM2019, Medellin, Colombia, October 2019.
- Conference Josué Ruano, **Diego Bravo**, et.al., *Localization of Small Neoplastic Lesions in Colonoscopy by Estimating Edge, Texture and Motion Saliency*, EMBC2019, Berlin, Germany, July 2019.
- Conference **Diego Bravo**, et. al., *Automatic detection of colorectal polyps larger than 5 mm during colonoscopy procedures using visual descriptors*, SIPAIM2018, Mazatlan, Mexico, October 2018.

---

## Research Interests

- Applications in medical imaging and signal processing. Machine Learning, Deep Learning, Self-supervised learning, Transformers in AI and Ethical AI. Computer Vision and Pattern Recognition. Computer-Aided Diagnosis (CAD) System. Interdisciplinary Collaboration in Healthcare Technology.

---

## Follow Me

**LinkedIn:** [ingdiegobravo](#)    **ORCID:** [0000-0003-1957-1615](#)  
**Scholar:** [Papers](#)    **GitHub:** [Repositories](#)