# Diego Bravo

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## 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 Gastroenterologia*, 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 Gastroenterologia*, 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 Computer Imaging and Medical Applications Laboratory (Cimalab).*
University: Universidad Nacional de Colombia - Director: Eduardo Romero, MD. Ph.D.

2021-2022 **Research student**, *at Universidad Nacional de Colombia*, Bogotá, Colombia.

2020-2022 **Research**, *at Foresight and Data Analysis*, Departamento Administrativo Nacional de Estadística (DANE), Bogotá, Colombia.

## Work Experience

2023-Present **Research Assistant**, *at Universidad Nacional de Colombia*, Bogotá, Colombia.

2021-2022 **Assistant Professor**, *at Universidad Militar*, Bogotá, Colombia.
Robotics, Signal Processing

2014-2017 **Maintenance Manager**, *at Pharmaceutical Laboratory QUIRUMEDICAS*, Bogotá, Colombia.

2014-2014 **Research Assistant - Undergrade**, *at Universidad Militar*, Bogotá, Colombia.
Project: Cooperative Robotics Applications Laboratory

## Publications

Conference **Diego Bravo,** Sebastian Medina, Josué Ruano, María Jaramillo, Martín Gómez, Fabio A. González, Eduardo Romero, *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, Martín Gómez, Fabio A. González, Eduardo Romero, *Generating synthetic endoscopy videos following a systematic screening protocol*, SIPAIM2023, Mexico City, Mexico, November 2023.

Conference María Jaramillo, Josué Ruano, **Diego Bravo**, Martín Gómez, Fabio A. González, Eduardo Romero, *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, Daniel Gallego, Martín Gómez, Fabio A. González, Eduardo Romero, *Automatic Classification of Esophagogastroduodenoscopy Sub-Anatomical Regions*, ISBI2023, Cartagena, Colombia, April 2023.

Abstract Fabian Emura, **Diego Bravo**, Josué Ruano, José E. Fuentes, Ricardo Torres-Rincon, Omar Malaver, Eduardo Romero, *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, Eduardo Romero, *Automatic polyp localization by low level superpixel features*, SIPAIM2019, Medelin, Colombia, October 2019.

Conference Josué Ruano, **Diego Bravo**, Cristian Barrera, Martín Gómez, Eduardo Romero, *Localization of Small Neoplastic Lesions in Colonoscopy by Estimating Edge, Texture and Motion Saliency*, EMBC2019, Berlin, Germany, July 2019.

Conference **Diego Bravo,** Josué Ruano, Martín Gómez, Eduardo Romero, *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 Leaning, Transformers in AI and Ethical AI. Computer Vision and Pattern Recognition. Computer-Aided Diagnosis (CAD) System. Interdisciplinary Collaboration in Healthcare Technology

## Follow Me

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