



## Camila Gonzalez

Postdoctoral Scholar, Psychiatry

### Bio

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#### BIO

Camila González is a postdoctoral scholar at the Computational Neuroscience Laboratory at Stanford University. Her aim is to develop methods that allow the continual training of deep learning models for neuroimaging applications, suitable for dynamic settings with ongoing data collection. She has received multiple distinctions, including the MICCAI Young Scientist Award and the Best Presentation Award at the EuSoMII annual meeting. Her work was featured in outlets such as the Computer Vision News magazine and the AI-Ready Healthcare podcast. Outside her research, she presided the MICCAI student board for two years and was DEI chair in the first edition of the ContinualAI Unconference.

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Technische Universitat Darmstadt (2023)
- Master of Science, Technische Universitat Darmstadt (2020)
- Bachelor of Science, Technische Universitat Darmstadt (2017)
- Doctor of Philosophy, Technical University of Darmstadt , Medical Image Computing (2023)
- Master of Science, Technical University of Darmstadt , Computer Science (2020)

#### STANFORD ADVISORS

- Kilian Pohl, Postdoctoral Faculty Sponsor

#### COMMUNITY AND INTERNATIONAL WORK

- DEI Chair for the ContinualAI (un)conference
- President of the MICCAI Student Board (MSB)

### Research & Scholarship

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#### LAB AFFILIATIONS

- Kilian Pohl, Computational Neuroscience Laboratory (CNS Lab) (6/1/2023)

### Publications

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#### PUBLICATIONS

- **Lifelong nnU-Net: a framework for standardized medical continual learning.** *Scientific reports*  
González, C., Ranem, A., Pinto Dos Santos, D., Othman, A., Mukhopadhyay, A.  
2023; 13 (1): 9381

- **Med-NCA: Robust and Lightweight Segmentation with Neural Cellular Automata** *Information Processing in Medical Imaging*  
Kalkhof, J., Gonzalez, C., Mukhopadhyay, A.  
2023: 705--716
- **Continual hippocampus segmentation with transformers** *IEEE/CVF Conference on Computer Vision and Pattern Recognition*  
Ranem, A., Gonzalez, C., Mukhopadhyay, A.  
2022: 3711--3720
- **Distance-based detection of out-of-distribution silent failures for Covid-19 lung lesion segmentation** *Medical image analysis*  
Gonzalez, C., Gotkowski, K., Fuchs, M., Bucher, A. M., Dadras, A., Fischbach, R., Kaltenborn, I. J., Mukhopadhyay, A.  
2022; 82: 102596
- **Disentanglement enables cross-domain hippocampus segmentation** *IEEE International Symposium on Biomedical Imaging*  
Kalkhof, J., Gonzalez, C., Mukhopadhyay, A.  
2022: 1--5
- **M3d-CAM: A PyTorch library to generate 3D attention maps for medical deep learning** *Bildverarbeitung für die Medizin*  
Gotkowski, K., Gonzalez, C., Bucher, A. M., Mukhopadhyay, A.  
2021: 217--222
- **Self-supervised out-of-distribution detection for cardiac CMR segmentation** *Medical Imaging with Deep Learning*  
Gonzalez, C., Mukhopadhyay, A.  
2021: 205--218
- **Detecting when pre-trained nnu-net models fail silently for covid-19 lung lesion segmentation** *Medical Image Computing and Computer Assisted Intervention*  
Gonzalez, C., Gotkowski, K., Bucher, A. M., Fischbach, R., Kaltenborn, I., Mukhopadhyay, A.  
2021: 304--314