Guillem Brasó

+34 645 56 32 01 | guillem.braso@tum.de | github.com/gbraso| guillembraso.github.io| Google Scholar

Research Interests

I have a general interest in machine learning and computer vision. Some of the tasks I focus on are detection, segmentation, tracking, and human pose estimation. I am also broadly interested in leveraging ideas from classical graph-based approaches and optimization in combination with deep learning to solve vision problems.

Education

Technical University of Munich — Munich, Germany
PhD in Computer Science. Advisor: Laura Leal-Taixé. — *October 2020 – Present*

Technical University of Munich — Munich, Germany
MSc in Mathematics. Focus on Machine Learning and Discrete Optimization. — *April 2019 – September 2020*

University of California at Davis — Davis, USA
Semester abroad to complete my BSc. minor in Computer Science. — *September 2017 – December 2017*

University of Barcelona — Barcelona, Spain
BSc in Mathematics. Minor in Computer Science. — *September 2013 – June 2018*

Experience

Technical University of Munich — October 2020 – Present
Research Assistant — *Munich, Germany*

Technical University of Munich — April 2019 – September 2020
Student Research Assistant — *Munich, Germany*

Technical University of Munich — June 2018 – April 2019
Research Intern — *Munich, Germany*

Kernel Analytics (acquired by Boston Consulting Group) — February 2018 – June 2018
Data Analyst intern — *Barcelona, Spain*

Publications

- P. Kocsis, I. Elezi, P. Súkeník **G. Brasó**, M. Niessner, L. Leal-Taixé. *The Unreasonable Effectiveness of Fully-Connected Layers for Low-Data Regimes. Neural Information Processing Systems (**NeurIPS**)*. 2022.
- A. Kim, **G. Brasó**, L. Leal-Taixé, A. Osep. *How Far Can Geometry take 3D Multi-Object Tracking?. European Conference on Computer Vision (**ECCV**)*. 2022.
- **G. Brasó**, O. Cetintas, L. Leal-Taixé. *Multi-Object Tracking and Segmentation via Neural Message Passing. International Journal of Computer Vision (**IJCV**)*. 2022.
- **G. Brasó**, N. Kister, L. Leal-Taixé. The Center of Attention: Center-Keypoint Grouping via Attention for Multi-Person Pose Estimation. *International Conference on Computer Vision (**ICCV**)*. 2021.
- M. Fabbri, **G. Brasó**, G. Maugeri, O. Cetintas, R. Gasparini, A. Osep, S. Calderara, L. Leal-Taixé, R. Cucchiara. MOTSynth: How Can Synthetic Data Help Pedestrian Segmentation and Tracking?. *International Conference on Computer Vision (**ICCV**)*. 2021.
- **G. Brasó**, L. Leal-Taixé. Learning a Neural Solver for Multiple Object Tracking. *IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)*. 2020. **(Oral presentation)**.

Skills and Academic Activities

Languages: English (fluent), Spanish (native), Catalan (native), German (beginner, A1.2).
Programming Languages: Python (advanced), C/C++ (beginner), SQL (beginner).
Libraries: PyTorch, PyTorch Geometric, Pytorch Lightning, NumPy, Pandas, Sci-Kit Learn.
Revieweing: CVPR 2022 (outstanding reviewer award), IJCV, CVPR 2021, CVPR 2020 BMTT workshop.
Workshop Organizer: Host and lead organizer of CVPR 2022 BMTT workshop *How far can synthetic data take us?.*