

# Dipam Goswami

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## Education

### Universitat Autònoma de Barcelona

PHD IN COMPUTER SCIENCE

- Research on Continual Learning

Barcelona, Spain

March 2023 - Present

### Birla Institute of Technology and Science, Pilani

B.E. IN COMPUTER SCIENCE ENGINEERING, M.Sc. IN MATHEMATICS

- Cumulative GPA of 8.35/10

Rajasthan, India

Aug. 2017 - July. 2022

## Publications

- Gomez-Villa A, **Goswami D**, Wang K, Bagdanov AD, Twardowski B, van de Weijer J. “Exemplar-free Continual Representation Learning via Learnable Drift Compensation.” (**ECCV 2024**)
- **Goswami D**, Soutif-Cormerais A, Liu Y, Kamath S, Twardowski B, van de Weijer J. “Resurrecting Old Classes with New Data for Exemplar-Free Continual Learning.” (**CVPR 2024**)
- **Goswami D**, Twardowski B, Van De Weijer J. “Calibrating Higher-Order Statistics for Few-Shot Class-Incremental Learning with Pre-trained Vision Transformers.” (**CLVision Workshop - CVPR 2024**)
- **Goswami D**, Liu Y, Twardowski B, van de Weijer J. “FeCAM: Exploiting the Heterogeneity of Class Distributions in Exemplar-Free Continual Learning”. (**NeurIPS 2023**)
- Liu Y, Cong Y, **Goswami D**, Liu X, van de Weijer J. “Augmented Box Replay: Overcoming Foreground Shift for Incremental Object Detection”. (**ICCV 2023**)
- Aggrawal HO, **Goswami D**, Agarwal V. “Bounding Box Priors for Cell Detection with Point Annotations”. (**ISBI 2023**)
- **Goswami D**, Schuster R, van de Weijer J, Stricker D. “Attribution-aware Weight Transfer: A Warm-Start Initialization for Class-Incremental Semantic Segmentation”. (**WACV 2023**)

## Experience

### Computer Vision Center, Universitat Autònoma de Barcelona (Dr. Joost van de Weijer, Dr. Bartłomiej Twardowski)

PRE-DOCTORAL RESEARCHER, LEARNING AND MACHINE PERCEPTION TEAM (LAMP)

- Federated Learning with Pre-trained Models
- Exemplar-Free Class-Incremental Learning
- Continual Few-shot Learning and Continual Object Detection

Sept. - Nov. 2022 | March 2023 - Present

Barcelona, Spain

### IDEAS NCBR (Dr. Bartłomiej Twardowski, Dr. Tomasz Trzcinski)

RESEARCH INTERN, ZERO-WASTE MACHINE LEARNING GROUP

- Continual Learning with Dense Retrieval Embedding Models

June 2024 - August 2024

Warsaw, Poland

### German Research Center for Artificial Intelligence (DFKI) (Prof. Didier Stricker)

RESEARCH ASSISTANT, AUGMENTED VISION DEPARTMENT

- Class-Incremental Learning for Semantic Segmentation

Feb 2022 - July 2022

Kaiserslautern, Germany

### Chloropy Technologies Pte Ltd.

COMPUTER VISION INTERN

- YOLOv3 Model for Agronomic counting using drone images of crops and plant-level data
- Monocular Depth Estimation to estimate plant heights from drone videos and generation of their 3D representations from depth maps

May 2020 - July 2020

Singapore (Remote)

## Academic Experience and Contributions

**Reviewer in Conferences** WACV 2023, 2024; NeurIPS 2024; ICLR 2024; CVPR 2024; ECCV 2024; BMVC 2024

**Conferences Attended** ICCV 2023; NeurIPS 2023; CVPR 2024

**Travel Grants** Received a mobility funding of 5000 euros from ELLIS