

Dipam Goswami

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Education

Universitat Autònoma de Barcelona

PHD IN COMPUTER SCIENCE

- Research on Continual Learning, Federated 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

- **Goswami D**, Magistri S, Wang K, Twardowski B, Bagdanov AD, van de Weijer J. “Covariances for Free: Exploiting Mean Distributions for Training-free Federated Learning” (**Arxiv 2025**)
- **Goswami D**, Wang L, Twardowski B, van de Weijer J. “Query Drift Compensation: Enabling Compatibility in Continual Learning of Retrieval Embedding Models” (**CoLLAs 2025**)
- 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
- Continual Learning for Information Retrieval
- Exemplar-Free Class-Incremental Learning, Continual Few-shot Learning and Continual Object Detection

Sept. - Nov. 2022 | March 2023 - Present

Barcelona, Spain

Sony AI (Dr. Joan Serra)

ASSISTANT AI RESEARCHER

- Exploring data attribution methods for Diffusion Models

Barcelona, Spain

June 2025 - Present

KU Leuven (Dr. Guido van de Ven, Prof. Tinne Tuytelaars)

RESEARCH INTERN, PSI GROUP

- Investigating modality gap in Vision-Language Models

Leuven, Belgium

January 2025 - March 2025

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

RESEARCH INTERN, ZERO-WASTE MACHINE LEARNING GROUP

- Continual Learning with Dense Retrieval Embedding Models

Warsaw, Poland

June 2024 - August 2024

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

RESEARCH ASSISTANT, AUGMENTED VISION DEPARTMENT

- Class-Incremental Learning for Semantic Segmentation

Kaiserslautern, Germany

Feb 2022 - July 2022

- Monocular Depth Estimation to estimate plant heights from drone videos and generation of their 3D representations from depth maps

Academic Experience and Contributions

Reviewer in Conferences	NeurIPS, ICLR, ICML, AI STATS, CVPR, ECCV, ICCV, CoLLAs, WACV, BMVC
Reviewer in Journals	TPAMI, TMLR, TNNLS, TIP
Conferences Attended	ICCV 2023; NeurIPS 2023; CVPR 2024