

# Mert Bülent SARIYILDIZ

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PhD student at NAVER LABS Europe and Inria Grenoble Rhône-Alpes

## Education

### – Inria Grenoble Rhône-Alpes & Université Grenoble Alpes

*Ph.D. in Computer Science*

○ Advisors: Karteek Alahari, Diane Larlus and Yannis Kalantidis

**Grenoble, France**

09/2020 - present

### – Bilkent University

*M.Sc. in Computer Engineering*

○ Advisors: Ramazan Gökberk Cinbiş, Selim Aksoy, GPA: 3.71

○ Includes a 6-months internship at NAVER LABS Europe

**Ankara, Turkey**

09/2016 - 09/2019

### – Anadolu (now Eskişehir Technical) University

*B.Sc. in Electrical and Electronics Engineering*

○ Ranked 1<sup>st</sup> in the Engineering Faculty, GPA: 3.72

○ Includes a 1-year English language program

**Eskişehir, Turkey**

09/2011 - 05/2016

## Research and Work Experience

### – NAVER LABS Europe & Inria Grenoble Rhône-Alpes

*Doctoral Researcher*

Working on learning visual representations that can generalize to many tasks and datasets, and evaluating the properties of such representations, under the supervision of Karteek Alahari, Diane Larlus and Yannis Kalantidis.

**Grenoble, France**

09/2019 - present

### – NAVER LABS Europe

*Intern*

Worked on multi-modal vision and language models under the supervision of Diane Larlus and Julien Perez.

**Grenoble, France**

02/2019 - 08/2019

### – Bilkent University and METU ImageLab

*Researcher*

Worked on weakly supervised visual recognition problems and image generative models under the supervision of Gökberk Cinbiş. Partially funded by TUBITAK (Scientific and Technological Research Council of Turkey), project title: “Learning Visual Recognition Models with Incomplete Supervision” (No: 116E445).

**Ankara, Turkey**

09/2016 - 02/2019

### – Visea Innovative Inc.

*Project Engineer*

Worked on developing computer vision algorithms to address several industrial problems under the supervision of Cihan Topal.

**Eskişehir, Turkey**

09/2015 - 08/2016

## Scientific Achievements

### Journal and Conference Papers, and Preprints: 423

- “Improving the Generalization of Supervised Models”, arXiv:2206.15369, M. B. Sariyildiz, Y. Kalantidis, K. Alahari, D. Larlus.
- “Concept Generalization in Visual Representation Learning”, IEEE International Conference on Computer Vision 2021, M. B. Sariyildiz, Y. Kalantidis, D. Larlus, K. Alahari.
- “Hard Negative Mixing for Contrastive Learning”, Advances in Neural Information Processing Systems 2020, Y. Kalantidis, M. B. Sariyildiz, N. Pion, P. Weinzaepfel, D. Larlus.
- “Learning Visual Representations with Caption Annotations”, European Conference on Computer Vision 2020, M. B. Sariyildiz, J. Perez, D. Larlus.
- “Key Protected Classification for Collaborative Learning”, Pattern Recognition 2020, M. B. Sariyildiz, R. G. Cinbis, E. Ayday.
- “Gradient Matching Generative Networks for Zero-Shot Learning”, IEEE Conference on Computer Vision and Pattern Recognition 2019 (oral presentation), M. B. Sariyildiz, R. G. Cinbis.

**Citations:** 423

**Patents:** 2 US patents

**Awards:** CVPR 2021 outstanding reviewer

### Book Translations

- “Derin Öğrenme”, Buzdağı Yayınevi, 2018, H. Aydın, R. G. Cinbiş, Y. D. Çetin, B. Demirel, S. Kalkan, H. Moğultay, M. B. Sariyildiz, G. Sümbül, F. Yarman Vural, (translation of Deep Learning by Goodfellow et al.)

## Teaching Experience

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- TA – Bilkent University, CS102 - Algorithms and Programming - 1
- TA – Bilkent University, CS102 - Algorithms and Programming - 2
- TA – Bilkent University, CS113 - Introduction to Computing
- TA – Bilkent University, CS464 - Image Analysis

## Talks

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- **MIAI Days**, 05/2021, “*Concept generalization in visual representation learning*”, PhD students presentations, virtual talk.
- **METU ImageLab**, 01/2021, “*Learning from captioned images, self-supervised learning and generalization*”, virtual talk.
- **Element AI**, 01/2021, “*Concept generalization in visual representation learning*”, virtual talk.
- **METU ImageLab**, 11/2018, “*Generative Models for Zero-shot Learning*”, Ankara, Turkey.
- **Bilkent University**, 11/2017, “*Exploiting Unsupervised Data for Zero-shot Learning*”, Ankara, Turkey.

## Professional Activities

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- Reviewer for IEEE Conference on Computer Vision and Pattern Recognition, 2019, 2021 (outstanding reviewer), 2022.
- Reviewer for IEEE International Conference on Computer Vision, 2021.
- Reviewer for European Conference on Computer Vision, 2020, 2022.
- Reviewer for Advances in Neural Information Processing Systems, 2020.

## Honors and Awards

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- NAVER LABS Europe the intern day 2019 session-1 winner award. 07/2019
- Research & teaching assistantship, full tuition award by Bilkent University. 09/2016
- Ranked 1<sup>st</sup> at graduation from Anadolu University, Engineering Faculty. 05/2016
- 6 certificates of high honor by Anadolu University, Electrical and Electronics Engineering. 2012-2016

## Research Grants

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- *Virtual Eye*, assistive device for visually impaired people. Fundings granted by TUBITAK (Scientific and Technological Research Council of Turkey) 2209B Undergraduate Research Project Support and Savronik, 2016.

## Skills

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### Technical

Python, C/C++, JAVA, MATLAB, PyTorch, TensorFlow, OpenCV, Qt, git

### Language

Turkish (native), English (fluent)