

# Mert Bülent SARIYILDIZ

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## Research Interests

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I study machine learning models applied to computer vision applications. My research particularly focuses on developing data-efficient visual models for uni or multi-modal semantic visual scene understanding.

## Education

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### Inria Rhône-Alpes & Université Grenoble Alpes

*Ph.D. in Computer Science*

◦ Advisors: Dr. Karteek Alahari, Dr. Diane Larlus

**Grenoble, France**

09/2020 - present

### Bilkent University, Computer Engineering Department

*M.Sc. in Computer Engineering*

◦ Advisors: Dr. Ramazan Gökberk Cinbiş, Dr. Selim Aksoy

◦ GPA: 3.71

**Ankara, Turkey**

09/2016 - 09/2019

### Anadolu University, Electrical and Electronics Engineering Department

*B.Sc. in Electrical and Electronics Engineering*

◦ GPA: 3.72

◦ Ranked 1<sup>st</sup> in the Engineering Faculty

**Eskişehir, Turkey**

09/2012 - 05/2016

### Anadolu University, Department of Foreign Languages

*English Language Program*

**Eskişehir, Turkey**

09/2011 - 06/2012

## Research and Work Experience

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### NAVER LABS Europe & Inria Rhône-Alpes

*Doctoral Researcher*

Joined the Computer Vision team at NAVER LABS Europe in 09/2019 and the THOTH team at Inria Rhône-Alpes in 09/2020 as a doctoral researcher. Working under the supervision of Dr. Diane Larlus, Dr. Karteek Alahari and Dr. Yannis Kalantidis.

**Grenoble, France**

09/2019 - present

### NAVER LABS Europe

*Intern*

Studied vision and language models under the supervision of Dr. Diane Larlus and Dr. Julien Perez.

**Grenoble, France**

02/2019 - 08/2019

### METU ImageLab

*Member*

A member of the computer vision team, ImageLab, at Middle East Technical University.

**Ankara, Turkey**

10/2017 - 09/2019

### Bilkent University

*Researcher*

Studied weakly supervised learning problems and generative models.

Between 02/2018 and 02/2019, 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 - 09/2019

### Visea Innovative Inc.

*Project Engineer*

Worked on developing computer vision algorithms, using C++ and C# languages, to address several industrial problems.

**Eskişehir, Turkey**

09/2015 - 08/2016

### Aselsan Inc.

*Intern*

Worked on developing OpenGL based graphical user interface to visualize 360 degrees antenna measurements.

**Ankara, Turkey**

07/2015 - 09/2015

## Teaching Experience

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- TA – Bilkent University, CS102 - Algorithms and Programming - 1
- TA – Bilkent University, CS102 - Algorithms and Programming - 2

- o TA – Bilkent University, CS113 - Introduction to Computing
- o TA – Bilkent University, CS464 - Image Analysis

## Publications

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### Journal and Conference Papers, and Preprints

- o “*Concept Generalization in Visual Representation Learning*”, arXiv:2012.05649, **M. B. Sariyildiz**, Y. Kalantidis, D. Larlus, K. Alahari.
- o “*Hard Negative Mixing for Contrastive Learning*”, Neural Information Processing Systems (NeurIPS) 2020, Y. Kalantidis, **M. B. Sariyildiz**, N. Pion, P. Weinzaepfel, D. Larlus.
- o “*Learning Visual Representations with Caption Annotations*”, European Conference on Computer Vision (ECCV) 2020, **M. B. Sariyildiz**, J. Perez, D. Larlus.
- o “*Key Protected Classification for Collaborative Learning*”, Pattern Recognition (SCI), 104, 2020, **M. B. Sariyildiz**, R. G. Cinbis, E. Ayday.
- o “*Gradient Matching Generative Networks for Zero-Shot Learning*”, Computer Vision & Pattern Recognition (CVPR) 2019 (oral presentation), **M. B. Sariyildiz**, R. G. Cinbis.

### Book Translations

- o “*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.)

## Talks

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

## Professional Activities

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- o Reviewer for IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2019, 2021.
- o Reviewer for IEEE International Conference on Computer Vision (ICCV), 2021.
- o Reviewer for European Conference on Computer Vision (ECCV), 2020.
- o Reviewer for Neural Information Processing Systems (NeurIPS), 2020.

## Honors and Awards

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

## Research Grants

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- o *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)