

ZEYNEP AKATA

Max-Planck-Institut for Informatics ◊ Campus E1 4 66123 Saarbruecken ◊ GERMANY

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RESEARCH EXPERIENCE

AMLAB at the University of Amsterdam

Assistant Professor

March 2017 - Present

Amsterdam, Netherlands

- Within the UvA Bosch Delta Lab directed by Prof. Dr. Max Welling and Prof. Dr. Arnold Smeulders, we do research on fundamentals of deep learning, with applications to automotive and computer vision. Topics include: Reinforcement Learning, Bayesian Deep Learning, Data Efficient Deep Learning, Multi-Modal Deep Learning, Generative and Unsupervised Deep Learning, Model Compression, and Adversarial Deep Learning.

Max Planck Institute for Informatics (MPII)

Senior Researcher

March 2017 - Present

Saarbruecken, Germany

- Within the Multimodal Deep Learning group, which is a part of Multimodal Computing Group lead by Prof. Dr. Bernt Schiele, we do research on zero-shot and generalized zero-shot learning by combining vision and language.

University of California Berkeley

Post-Doctoral Researcher (Visiting Scholar)

October 2016 - March 2017

Berkeley, CA, USA

- Within a collaboration with Berkeley AI Research group lead by Prof. Dr. Trevor Darrell, funded by DARPA BAA-16-53, we propose models that focus on the discriminating properties of the visible object, jointly predicts a class label, and explains why the predicted label is appropriate for the image.

Max Planck Institute for Informatics (MPII)

Post-Doctoral Researcher

March 2014 - March 2017

Saarbruecken, Germany

- Within the Multimodal Computing group lead by Prof. Dr. Bernt Schiele, we combine vision and language for weakly supervised and zero-shot learning, generate images from text and also focus on visual reasoning through learning visual attention and image captioning.

INRIA Rhone Alpes

PhD Student with Prof. Dr. Cordelia Schmid

January 2011 - January 2014

Grenoble, France

- PhD topic: Large Scale Image Classification and Zero-Shot Learning

Fraunhofer IAIS

MSc Student with Prof. Dr. Christian Bauckhage

April 2010 - November 2010

Sankt Augustin, Germany

- MSc topic: Non-Negative Matrix Factorization for Image Classification

EDUCATION

Collège des Ecoles Doctorales (CED) de l'Université de Grenoble, France

2011-2014

MSc in Computer Science

RWTH Aachen, Germany

2008-2010

MSc in Media Informatics (GPA: 1.8, with 1.0 being the highest)

Trakya University, Turkey

2004-2008

BSc in Computer Engineering (GPA: 3.81, with 4.0 being the highest)

SELECTED PUBLICATIONS

1. **Gaze Embeddings for Zero-Shot Image Classification** 2017
IEEE Computer Vision and Pattern Recognition (CVPR) Honolulu, HI
Nour Kaessli, **Zeynep Akata**, Bernt Schiele, Andreas Bulling
2. **Zero-Shot Learning The Good, the Bad and the Ugly** 2017
IEEE Computer Vision and Pattern Recognition (CVPR) Honolulu, HI
Yongqin Xian, Bernt Schiele, **Zeynep Akata**
3. **Exploiting saliency for object segmentation from image level labels** 2017
IEEE Computer Vision and Pattern Recognition (CVPR) Honolulu, HI
Seong Joon Oh, Rodrigo Benenson, Anna Khoreva, **Zeynep Akata**, Mario Fritz, Bernt Schiele
4. **Learning What and Where to Draw** 2016
Neural Information Processing Systems (NIPS) Barcelona, ES
Scott Reed, **Zeynep Akata**, Santosh Mohan, Samuel Tenka, Bernt Schiele, Honglak Lee
5. **Generating Visual Explanations** 2016
European Conference of Computer Vision (ECCV) Amsterdam, NL
Lisa Anne Hendricks, **Zeynep Akata**, Marcus Rohrbach, Jeff Donahue, Bernt Schiele, Trevor Darrell
6. **Generative Adversarial Text to Image Synthesis** 2016
International Conference on Machine Learning (ICML) New York City, NY
Scott Reed, **Zeynep Akata**, Kinchen Yan, Lajanugen Logeswaran, Bernt Schiele, Honglak Lee
7. **Learning Deep Representations of Fine-Grained Visual Descriptions** 2016
IEEE Computer Vision and Pattern Recognition (CVPR) Las Vegas, NV
Scott Reed, **Zeynep Akata**, Honglak Lee, Bernt Schiele
8. **Latent Embeddings for Zero-shot Classification** 2016
IEEE Computer Vision and Pattern Recognition (CVPR) Las Vegas, NV
Yongqin Xian, **Zeynep Akata**, Gaurav Sharma, Quynh Nguyen, Matthias Hein, Bernt Schiele
9. **Multi-Cue Zero-Shot Learning with Strong Supervision** 2016
IEEE Computer Vision and Pattern Recognition (CVPR) Las Vegas, NV
Zeynep Akata, Mateusz Malinowski, Mario Fritz, Bernt Schiele
10. **Label Embedding for Image Classification** Issue: July 2016
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
Zeynep Akata, Florent Perronnin, Zaid Harchaoui, Cordelia Schmid
11. **Evaluation of Output Embeddings for Fine-Grained Image Classification** 2015
IEEE Computer Vision and Pattern Recognition (CVPR) Boston, MAS
Zeynep Akata, Scott Reed, Daniel Walter, Honglak Lee, Bernt Schiele
12. **Good Practice in Large Scale Learning for Image Classification** Issue: March 2014
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
Zeynep Akata, Florent Perronnin, Zaid Harchaoui, Cordelia Schmid
13. **Label Embedding for Attribute Based Classification** 2013
IEEE Computer Vision and Pattern Recognition (CVPR) Portland, OR
Zeynep Akata, Florent Perronnin, Zaid Harchaoui, Cordelia Schmid

PATENTS

- Label-Embedding View of Attribute-Based Recognition** 2014
US Patent 20,140,376,804
Zeynep Akata, Florent Perronnin, Zaid Harchaoui, Cordelia Schmid

ACADEMIC ACTIVITIES

Reviewer in Journals and Conferences TPAMI 2015–, IJCV 2015– ICCV 2015–, NIPS 2016–, AISTATS 2017, CVPR 2015–, ACCV 2016, ECCV 2016	
Area Chair in WACV	2016
Organization Committee Tutorial on Zero-Shot Learning, CVPR	2017
Organization Committee Tutorial on Embeddings and Metric Learning, GCPR	2016
Organization Committee Gender Diversity Awareness Training, Saarland University	2015
Organization Committee Lise Meitner Award For Excellent Women in Computer Science	2015

TEACHING

Leren (Introduction to Machine Learning)	2017
Machine Learning I (with Rianne van den Berg)	2017
Teaching Assistant in MSc level lecture High Level Computer Vision	2014
MSc and PhD supervision of Yongqin Xian	2015 –
MSc thesis supervision of Nour Karessli	2016

COLLABORATIONS AND INVITED TALKS

Academic Collaboration with Prof. Dr. Trevor Darrell, University of California Berkeley	2016–
Academic Collaboration with Prof. Dr. Honglak Lee, University of Michigan	2014–
Academic Collaboration with Scott Reed, University of Michigan	2014-2016
Invited Talk at Bonn University, Department IV (Intelligent Systems)	January 2016
Invited Talk at University College London, Department of Computer Science	April 2016
Invited Talk at University of Birmingham, Department of Computer Science	July 2016
Invited Talk at Google Deepmind	July 2016
Invited Talk at Facebook AI Research, Menlo Park	August 2017
Invited Talk at ReWork Deep Learning Summit London	September 2017

AWARDS

Best Reviewer Award	CVPR and ECCV, 2016
Lise Meitner Award for Excellent Women in Computer Science	MPII, March 2014
PhD CIFRE Scholarship	ANRT France, January 2011
Best Poster Award	INRIA CVML Summer School, July 2010
MSc Scholarship	TUBITAK Turkey, September 2008
Department Rank 1 in BSc Graduation	Computer Science Department, Turkey, 2008
Faculty Rank 1 in BSc Graduation	Faculty of Engineering and Architecture, Turkey, 2008

GROUPS AND ASSOCIATIONS

IEEE Computer Society	2005–
IEEE Women in Engineering	2006–
RWTH Alumni	2008–
INRIA Alumni	2011–

SPOKEN LANGUAGES

Turkish Native	English Proficiency
German Independency	French Beginner