Curriculum Vitae

Yuki M. Asano

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RESEARCH INTERESTS

computer vision, self-supervision, multi-modal learning (video, audio, text), privacy/bias in computer vision

PROFESSIONAL EXPERIENCE

University of Amsterdam *Amsterdam, NL*
Assistant Professor in Computer Vision and Machine Learning at the VIS Lab *Oct. 2021 –*
- Co-supervision of 5 PhD students with C.G.M. Snoek, M. Welling, E. Gavves

EDUCATION

University of Oxford *Oxford, UK*
DPhil in Autonomous Intelligent Machines and Systems @ Visual Geometry Group (VGG) *Oct. 2017 – Sep. 2021*
- Supervisor: Andrea Vedaldi; Examiners: Philip Torr, Phillip Isola; **Result**: *'no corrections'*

University of Oxford *Oxford, UK*
MSc Mathematical Modelling and Scientific Computing (overall: Pass, thesis: Distinction) *Oct. 2015 – Sep. 2016*

University of Hagen *Hagen, Germany*
BSc Business Administration and Economics (overall: 1.4, GPA = 3.6/4) *Oct. 2012 – Aug. 2017*

Ludwig Maximilian University of Munich *Munich, Germany*
BSc. Physics (overall: 1.2, GPA = 3.8/4) *Oct. 2011 – Sep. 2014*

SELECTED PUBLICATIONS

According to Google scholar, I have ≈1100 citations and my h-index is 12. *: joint first-authorship

CITRIS: Causal Identifiability from Temporal Intervened Sequences
P. Lippe, S. Magliacane, S. Löwe, YM. Asano, T. Cohen, E. Gavves
International Conference on Machine Learning (ICML), 2022.

Self-Supervised Learning of Object Parts for Semantic Segmentation
A. Ziegler, **YM. Asano**
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022.

Bias Out-of-the-Box: An Empirical Analysis of Intersectional Occupational Biases in Popular Generative Language Models
H. Kirk, Y. Jun, H. Iqbal, E. Benussi, F. Volpin, FA. Dreyer, A. Shtedritski, YM. Asano
Neural Information Processing Systems (NeurIPS), 2021.

Keeping Your Eye on the Ball: Trajectory Attention in Video Transformers
M. Patrick*, D. Campbell*, YM. Asano*, I. Misra, F. Metze, C. Feichenhofer, A. Vedaldi, JF. Henriques
Neural Information Processing Systems (NeurIPS) [Oral], 2021.

PASS: An ImageNet replacement for self-supervised pretraining without humans
YM. Asano, C. Rupprecht, A. Zisserman, A. Vedaldi
Neural Information Processing Systems Track on Datasets and Benchmarks (NeurIPS-Data), 2021

Emergent inequality and endogenous dynamics in a simple behavioral macroeconomic model
YM. Asano, JJ. Kolb, J. Heitzig, JD. Farmer
Proceedings of the National Academy of Sciences (PNAS), 2021.

Support-set bottlenecks for video-text representation learning.
M. Patrick, PY. Huang*, YM. Asano*, F. Metze, A. Hauptmann, JF. Henriques, A. Vedaldi
International Conference on Learning Representations (ICLR) [Spotlight], 2021

Self-labelling via simultaneous clustering and representation learning
YM. Asano, C. Rupprecht, and A. Vedaldi
International Conference on Learning Representations (ICLR) [Spotlight], 2020.

A critical analysis of self-supervision, or what we can learn from a single image
YM. Asano, C. Rupprecht, and A. Vedaldi
International Conference on Learning Representations (ICLR), 2020.

For a complete list, please visit Google Scholar.

Supervision of students

ongoing: Co-supervision of **five** UvA PhD students together with C.G.M. Snoek, M. Welling, E. Gavves
alumni: three MSc students (resulting in a CVPR paper, and two under submission)

Selected Invited Talks

2022: AWS Research, University of Cambridge, University of Bern,
2021: University College London, George Mason University, ENPC ParisTech, Universitat Autonoma de Barcelona,
Zalando Data Science Group, University of Oxford, FiveAI, UnitaryAI

Teaching/Summer schools

Teaching: Deep Learning course for the MSc in AI at the University of Amsterdam (200 students)
Summer schools: Intelligent Sensing, IPM-AI, VISUM (elected "best lecture"), ASCI Computer Vision

Work Experience

Facebook AI Research: Intern & Contractor; worked with A. Joulin	Jun. 2020 – Feb. 2021
TransferWise: Machine Learning Intern & Contractor	Mar 2017 – Jan. 2019
Rakuten: Cloud Infrastructure Engineering Intern	Aug. 2015 – Sep. 2015
Siements Technology Accelerator: Working student	Apr. 2015 – Aug. 2015
180 Degrees Consulting Munich e.V.: President & Founder	Dec. 2016 – Jun. 2017
SOS Children's villages International: Project lead	Mar 2017 – Jun. 2017
McKinsey & Company: Fellow Intern	Apr. 2015 – Aug. 2015

Selected awards and funding

2021 Awarded ELLIS membership
2020 AWS Machine Learning Research Award (Co-PI with Christian Rupprecht and Andrea Vedaldi), USD80K
   Qualcomm Innovation Fellowship Winner 2020 (PI), USD40K
2019 International Computer Vision Summer School: best team essay on assistive technology
2017 Full PhD funding by the Engineering and Physical Sciences Research Council, 1 successful EU applicant per year
2015 MSc bursary of the University of Oxford Mathematical Institute for best applicants
   National Academic Foundation study abroad scholarship for studying at Oxford
2014 Ministry of Science in Japan scholarship, awarded to <1% of international undergraduate students
   DAAD, German Academic Exchange Service scholarship for studying at the University of Tokyo
   National Academic Foundation scholarship, for outstanding academic achievement, awarded to <0.4% of students
2013 Max Weber scholarship (elite network Bavaria), awarded to <1% of Bavarian students

Community

Area Chair: ECCV2022, CVPR2023
Reviewer: consistently for CVPR, ICCV, ICML, AAAI, TPAMI, ICJV, ACCV, plus workshops
Organizer: 3x workshops on self-supervised learning at ECCV/NeurIPS

Media/Research community

2021 Community blogposts about our PASS dataset and paper: ImportAI, Synced, Deep Learning Weekly
   Blogpost from Facebook AI about applying our method in Instagram Reels
2020 Advisor for projects at OxAI, a society to educate, build and connect an interdisciplinary AI community
   Blogpost from Facebook AI about our GDT paper
   Interviewed for the CTDS podcast
   Community video analyses (1 2) about our ICLR 2020 paper
   Community blogposts (1, 2) about our ICLR 2020 spotlight paper