

Curriculum Vitae

Yuki M. Asano

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RESEARCH INTERESTS

computer vision, self-supervision, vision-language models, privacy, bias

PROFESSIONAL EXPERIENCE

Qualcomm AI: External Machine Learning Consultant	Since May 2023
University of Amsterdam: Assist. Professor in Computer Vision and Machine Learning	Since Oct. 2021
• Co-supervision of 6 PhD students with C.G.M. Snoek, M. Welling, E. Gavves	
Facebook AI Research: Intern & Contractor; Host: A. Joulin	Jun. 2020 – Feb. 2021
TransferWise: Machine Learning Intern & Contractor	Mar 2017 – Jan. 2019
Rakuten: Cloud Infrastructure Engineering Intern	Aug. 2015 – Sep. 2015
Siemens Technology Accelerator: Working student	Apr. 2015 – Aug. 2015
180 Degrees Consulting Munich e.V.: President & Founder of NGO	Dec. 2016 – Jun. 2017
SOS Children's villages International: Project lead	Mar 2017 – Jun. 2017
McKinsey & Company: Fellow Intern	Apr. 2015 – Aug. 2015

EDUCATION

University of Oxford	Oxford, UK
<i>DPhil in Autonomous Intelligent Machines and Systems @ Visual Geometry Group (VGG)</i>	<i>Oct. 2017 – Sep. 2021</i>
• Supervisor: Andrea Vedaldi; Examiners: Philip Torr, Phillip Isola	
• Result: 'no corrections' (highest award possible)	
University of Oxford	Oxford, UK
<i>MSc Mathematical Modelling and Scientific Computing (overall: Pass, thesis: Distinction)</i>	<i>Oct. 2015 – Sep. 2016</i>
University of Hagen	Hagen, Germany
<i>BSc Business Administration and Economics (overall: 1.4, GPA = 3.6/4)</i>	<i>Oct. 2012 – Aug. 2017</i>
Ludwig Maximilian University of Munich	Munich, Germany
<i>BSc. Physics (overall: 1.2, GPA = 3.8/4)</i>	<i>Oct. 2011 – Sep. 2014</i>

TEACHING

04/2023: Self-supervised and Vision-Language Learning (MSc in AI, 2 ECTS, https://uvadl2c.github.io/)
Overall student feedback: 87.0% (very) satisfied; score: 4.3 ± 0.8 out of 5
11/2022: Deep Learning 1 (MSc in AI, 6 ECTS, https://uvadlc.github.io/)
Overall student feedback: 92.1% (very) satisfied; score: 4.5 ± 0.7 out of 5
Teaching Assistant / Practicals
10/19 – 01/21, Deep Learning and Machine Vision for AIMS cohort 2019, 2020 (Andrew Zisserman, Andrea Vedaldi)
01/20 – 01/20, Multiple View Geometry (Victor Adrian Prisacariu, Andrew Zisserman)
01/20 – 03/20, Design and Analysis of Algorithms (Daniel Kroening)
10/19 – 12/19, Machine Learning at CS Dept. (Phil Blunsom, Ani Calinescu)
01/18 – 03/18, Mathematics and Data Science for Development (Neave O'Cleary)
Certified Instructor workshops for the Nvidia Deep Learning Institute
3x Fundamentals of DL, at the University of Oxford Big-Data Institute and the Wellcome Centre for Human Genetics
Other Tutorials
01/2019 Introduction to (Deep) NLP at the Oxford Institute for New Economic Thinking
07/2018 Introduction to Machine Learning at Santa Fe Institute Complex Systems Summer School
07/2018 Introduction to CNNs and RNNs at Santa Fe Institute Complex Systems Summer School

SUPERVISION

ongoing:

PhD, Michael Dorkenwald with Cees Snoek
PhD, Mohammadreza Salehidehnavi with Cees Snoek and Efstratios Gavves
PhD, Pengwan Yang with Cees Snoek
PhD, Winfried van den Dool with Max Welling
PhD, Rob Romijnders with Max Welling
PhD, Phillip Lippe with Efstratios Gavves, Taco Cohen, Sara Magliacane
MSc thesis, Lukas Knobler
MSc thesis, Apostolos Panagiotopoulos
MSc thesis, Alfonso Taboada
MSc thesis, Luc Weytingh
MSc thesis, Kaya ter Burg
MSc thesis, Sunny Soni

2022:

MSc thesis, Jochem Loedeman
MSc thesis, Anton Kozackov
BSc thesis, Anne van der Weijden
BSc thesis, Philip de Wolf
OxAI interdisciplinary team on de-biasing in NLP [result: ACL'22 workshop paper]

2021:

MSc thesis, Adrian Ziegler, TUM (top-grade), [result: CVPR'22 paper]
OxAI interdisciplinary team on investigating bias in computer vision [result: ICLR'21 workshop paper]
OxAI interdisciplinary team on investigating hateful memes [result: ACL'21 workshop paper]
OxAI interdisciplinary team on investigating bias in NLP [result: NeurIPS'21 paper]

2020:

MSc thesis, Carlos Roberto Medina Temme, EPFL (top-grade)
OxAI interdisciplinary team working with Ada Lovelace Institute

AWARDS AND FUNDING

2022 “Best lecture” at VISUM summer school
2021 Awarded ELLIS membership
2x Google Academic Research Credits Program (PI, Co-PI), USD2K
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
2018 Edgell Sheppee Fund from Engineering Science Dept., Oxford
Balliol College Graduate Project Grant
2017 Full PhD funding by the Engineering and Physical Sciences Research Council, 1 successful EU applicant per year
Open Data Science Conference East Scholarship
2016 Brasenose College Annual Fund
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
EliteAkademie scholarship, <2% acceptance rate

INVITED TALKS

06/2023 Invited talk at Helsing AI, Germany (A. Bordes)
05/2023 Invited talk at Computer Vision and Graphics Seminar, MIT (A. Torralba)
05/2023 Invited talk at Computer Vision Group, University of Tampere (E. Rathu)
02/2023 Invited talk at Computer Vision Center, Universitat Autònoma de Barcelona (D. Karatzas)
02/2023 Invited lecture at Machine Learning Course, University of Edinburgh (H. Bilen)
02/2023 Invited talk at Machine Learning and Computer Vision Group, University of Bristol (D. Damen, M. Wray)
02/2023 Invited talk at AIMS seminar, University of Oxford (M. Osborne)
12/2022 Invited talk at Computer Vision Group, University of Bern (P. Favaro)

10/2022 Invited talk at AWS Research, Tel-Aviv (R. Litman)
 09/2022 Invited talk at ELLIS Video Understanding Symposium
 09/2022 Invited talk at the Machine Intelligence Laboratory, University of Cambridge (R. Cipolla, S. Albanie)
 04/2022 Invited talk at AwesomeIT conference, Amsterdam
 04/2022 Invited talk at BMVA Symposium, Manchester
 03/2022 Invited talk at LMSS Seminar at INRIA, Rennes (L. Amsaleg)
 12/2021 Invited talk at Qualcomm-UvA Deep Vision Seminar at University of Amsterdam (E. Gavves)
 11/2021 Invited lecture at FACT-AI MSc course at University of Amsterdam (F. Santos)
 10/2021 Invited talk at CMIC & WEISS at medical imaging group University College London
 09/2021 Invited talk at International Workshop on Agentization, George Mason University and the Proteus Foundation
 06/2021 Invited talk at Imagine group at ENPC ParisTech (D. Picard)
 05/2021 Invited talk at Computer Vision Center, Universitat Autònoma de Barcelona (D. Karatzas)
 03/2021 Invited talk at Zalando Data Science Community Knowledge Exchange
 01/2021 Invited talk at Torr Vision Group and FiveAI (P. Torr)
 10/2020 Invited talk at UnitaryAI
 06/2019 Invited talk at Robotics and Autonomous Systems CDT Conference
 03/2018 Networks seminar, Mathematical Institute, University of Oxford
 01/2018 Balliol College interdisciplinary student seminar, University of Oxford
 11/2017 Networks seminar, Mathematical Institute, University of Oxford
 10/2017 Complexity Economics meeting, Institute for New Economic Thinking
 08/2017 Transdisciplinary methods research group, Potsdam Institute for Climate Impact Research

SERVICE TO THE ACADEMIC COMMUNITY

PhD Jury member:

2023 Vladimir Iashin (Tampere University)
 Mohamed Sayed (University College London)

Committee:

2022 Member in the Ethical Committee for Student Projects at University of Amsterdam, Information Sciences

Area Chair:

2023 CVPR, NeurIPS
 2022 ECCV, ECCV workshop 1x, NeurIPS workshop 1x

Reviewer:

2023 ICCV
 2022 CVPR, ICML (outstanding reviewer), ECCV, ECCV workshops (1x), IJCV, NeurIPS, ACM Multimedia, IJCV
 2021 CVPR, (outstanding reviewer), ICCV (outstanding reviewer), NeurIPS Track on Datasets & Benchmarks, TPAMI, IJCV, NeurIPS workshops (3x): SSL Theory and Practice, Preregistration of Experiments, ImageNet PPF
 2020 ACCV, NeurIPS workshops (2x): SSL Theory and Practice; Preregistration of Experiments

ORGANIZATION OF WORKSHOPS & COMMUNITY

ongoing Organizing a focus group on privacy in computer vision with leading researchers in the field
ongoing ICCV workshop on *Big Model Adapting for Computer Vision (BigMAC)*
YM. Asano, T. Han, M. Caron, P. Isola, S. Belongie
 10/2022 ECCV workshop on *Self-Supervised Learning*
YM. Asano, C. Rupprecht, D. Larlus, A. Zisserman
 12/2022 NeurIPS workshop on *Self-Supervised Learning: Theory and Practice*
 I. Misra, P. Xie, X. Wang, G. Varol, Y. Song, **YM. Asano**, P. Luc
 08/2020 ECCV workshop on *Self-Supervised Learning*
YM. Asano, C. Rupprecht, and A. Joulin, A. Vedaldi

ACADEMIC DEVELOPMENT

University Teaching Qualification (BKO) courses (5 days) + Inclusive Learning Environment Trajectory (1 day)
 Academic Leadership (8 days), University of Amsterdam
 Superb Supervision (4 days), University of Amsterdam
 Entrepreneurship (0.5 day), Said Business school, University of Oxford
 Looking behind the label: mental ill-health in the workplace (0.5 day), University of Oxford
 Core writing skills (0.5 day), University of Oxford
 Public Engagement (0.5 day), University of Oxford
 Presentation Skills (0.5 day), University of Oxford

Beyond Communication: Effective Two-way Engagement (0.5 day), University of Oxford

SUMMER/WINTER SCHOOL LECTURES

12/2022 Lecturer at Intelligent Sensing Winter School of Queen Mary Univ. of London (virtual)
09/2022 Lecturer at IPM-AI summer school (virtual)
07/2022 Lecturer at VISUM Summer school by INESC TEC (elected “best lecture”)
05/2022 Lecturer at ASCI Computer Vision Summer School, Amsterdam
08/2021 Organiser and Lecturer: Introductory 10-day workshop titled *Self-supervised learning and ethics* for the German National Academic Foundation (Studienstiftung) summer academy, co-organized with C. Rupprecht

MEDIA

ongoing: Organizer of the Deep Vision Seminar at the UvA with more than 2200 members on MeetUp
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

OTHER

Languages: German (native), Japanese (native), English (fluent, IELTS 8.5/9), French (basic)
Nationality: German & Japanese
Hobbies: Hiking, Tree & Plant identification, (Ultra)-running

PUBLICATIONS

According to Google scholar, my publications have ≈ 1600 citations and my h-index is 14. *: joint first-authorship

Main Conferences/Journals

BISCUIT: Causal Representation Learning from Binary Interactions

P. Lippe, S. Magliacane, S. Löwe, **YM. Asano**, T. Cohen, E. Gavves
Conference on Uncertainty in Artificial Intelligence (UAI), 2023.

Self-Guided Diffusion Models

VT. Hu, DW. Zhang, **YM. Asano**, G.J. Burghouts, CGM. Snoek
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

Causal Representation Learning for Instantaneous and Temporal Effects in Interactive Systems

P. Lippe, S. Magliacane, S. Löwe, **YM. Asano**, T. Cohen, E. Gavves
International Conference on Learning Representations (ICLR), 2023

The Augmented Image Prior: Distilling 1000 Classes by Extrapolating from a Single Image

YM. Asano*, A. Saeed*
International Conference on Learning Representations (ICLR), 2023

VTC: Improving Video-Text Retrieval with User Comments

L. Hanu, **YM. Asano**, J. Thewlis, C. Rupprecht
European Conference on Computer Vision (ECCV), 2022.

Less than Few: Self-Shot Video Instance Segmentation

P. Yang, **YM. Asano**, P. Mettes, CGM. Snoek
European Conference on Computer Vision (ECCV), 2022.

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 object detection from audio-visual correspondence

T. Afouras*, **YM. Asano***, F. Fagan, A. Vedaldi, F. Metze
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 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.

Measuring the Interpretability of Unsupervised Representations via Quantized Reversed Probing

I. Laina, **YM. Asano**, A. Vedaldi

International Conference on Learning Representations (ICLR), 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. Feichtenhofer, 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

Space-Time Crop & Attend: Improving Cross-modal Video Representation Learning

M. Patrick*, **YM. Asano***, B. Huang, I. Misra, F. Metze, JF. Henriques, A. Vedaldi

International Conference on Computer Vision (ICCV), 2021.

On Compositions of Transformations in Contrastive Self-Supervised Learning

M. Patrick*, **YM. Asano***, P. Kuznetsova, R. Fong, JF. Henriques, G. Zweig, and A. Vedaldi

International Conference on Computer Vision (ICCV), 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

Labelling unlabelled videos from scratch with multi-modal self-supervision.

YM. Asano*, M. Patrick*, C. Rupprecht, A. Vedaldi

Neural Information Processing Systems (NeurIPS), 2020

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.

Rising adoption and retention of meat-free diets in online recipe data

YM. Asano*, G. Biermann*

Nature Sustainability, 2(7):621–627, 2019

Monte Carlo Study of the Precision and Accuracy of Proton CT Relative Stopping Power Maps

G. Dedes and **YM. Asano**, N. Arbor, D. Dauvergne, J. Letang, E. Testa, S. Rit, K. Parodi

Medical Physics, 3298-3298, 2015.

Workshops

Memes in the Wild: Assessing the Generalizability of the Hateful Memes Challenge Dataset

H. Kirk, Y. Jun, G. Wachtel, N. Broestl, R. Li, P. Rauba, X. Bai, M. Doff-Sotta, A. Shtedritski, **YM Asano**

Workshop on Online Abuse and Harms, ACL 2021

Privacy-preserving Object Detection

P. He, C. Griffin, K. Kacprzyk, A. Joosen, M. Collyer, A. Shtedritski, **YM. Asano**

ICLR’21 Synthetic Data Generation Workshop