Curriculum Vitae

Yuki M. Asano

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Research interests

computer vision, self-supervised learning, vision-language models, large model adaptation methods, LLMs

Professional Experience

University of Amsterdam: Assist. Professor in Computer Vision and Machine Learning — Since Oct. 2021

- Supervision of 8 PhD students, 10 MSc students
- Teaching for MSc in AI: Deep Learning 1 & Vision-Language Learning courses

Qualcomm AI: External Machine Learning Consultant — Since May 2023

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

Siements 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

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'* (highest award possible)

University of Oxford — Oxford, UK

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

- Thesis research at the Institute for New Economic Thinking

University of Hagen — Hagen, Germany

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

- Thesis research at the Potsdam Institute for Climate Impact Research

Ludwig Maximilian University of Munich — Munich, Germany

BSc. Physics (overall: 1.2, GPA = 3.8/4) — *Oct. 2011 – Sep. 2014*

- Exchange at the University of Tokyo (Oct. 2013 – Mar. 2014)

Teaching

11/2023: Deep Learning 1(MSc in AI, 6 ECTS, https://uvadlc.github.io/)
220 students, ongoing

04/2023: Self-supervised and Vision-Language Learning (MSc in AI, 2 ECTS, https://uvadl2c.github.io/)
80 students, 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/)
200 students, 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)
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):
PhD, Danilo de Goede with Cees Snoek
PhD, Laurens Samson with Sennay Ghebreab
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 Efrstatios Gavves, Taco Cohen, Sara Magliacane
ongoing (MSc):
MSc thesis, Jona Ruthard
MSc thesis, Dawid Kopiczko [ICLR'24 paper]
MSc thesis, Dheeraj Varghese
MSc thesis, Gabriele Desimini
MSc thesis, Gergely Papp
MSc thesis, Nimi Barazani [CVPR'24 paper]
MSc thesis, Ioanna Gogou
MSc thesis, Ryan Amaudruz
MSc thesis, Valentinos Pariza
MSc thesis, Walter Simoncini
MSc project, Marga Don
2023:
MSc thesis, Lukas Knobler [CVPR'24 paper]
MSc thesis, Apostolos Panagiotopoulos
MSc thesis, Alfonso Taboada
MSc thesis, Luc Weytingh [Rotterdam Nieuwe Instituut Art Exhibition]
MSc thesis, Kaya ter Burg
MSc thesis, Sunny Soni [CVPR'24 workshop paper]
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 [ACL'22 workshop paper]
2021:
MSc thesis, Adrian Ziegler, TUM (top-grade), [CVPR'22 paper]
OxAI interdisciplinary team on investigating bias in computer vision [ICLR'21 workshop paper]
OxAI interdisciplinary team on investigating hateful memes [ACL'21 workshop paper]
OxAI interdisciplinary team on investigating bias in NLP [NeurIPS'21 paper]
2020:
MSc thesis, Carlos Roberto Medina Temme, EPFL [top-grade]
OxAI interdisciplinary team working with Ada Lovelace Institute

Awards and funding

2024 "Best paper honorable mention" at ICLR'24 (i.e. in the top 15 out of 7000 submissions/ 2300 papers)
2022 "Best lecture" award 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

Major Keynotes:
04/2024 [5] Synergising the Brain and Artificial Neural Networks Workshop, Univ. Birmingham (J. Jiao, O. Jensen)
01/2024 [5] BMVA Symposium on vision and language
12/2023 [4] NeurIPS Self-supervised Learning in Theory and Practice Workshop
10/2023 [3] ACMM 2023 MADiMa workshop
04/2022 [2] AwesomeIT conference
09/2022 [1] ELLIS Video Understanding Symposium
Research talks:
06/2024 [40] Invited talk at TNO applied AI Inspiration Session (A. Trantas)
05/2024 [39] Invited talk at NLP workshop Amsterdam (R. Fernandez)
05/2024 [38] Invited talk at Helmholtz Munich Computational Health Center (Z. Akata)
04/2024 [37] Invited talk at Apple Research (L. Zapella)
04/2024 [36] Invited talk at the National Informatics Institute of Japan (S. Satoh)
04/2024 [35] Invited talk at the Advanced Institute for Science and Technology Tokyo (H. Kataoka)
04/2024 [34] Invited talk at Innovation Center for Artificial Intelligence (ICAI)
01/2024 [33] Invited talk at the Okinawa Institute of Science and Technology Graduate University (OIST) (M. Sabokrou)
01/2024 [32] Invited talk at the Technical University of Nuremberg (W. Burgard)
12/2023 [31] Invited talk at Netherlands Cancer Institute (NKI) Amsterdam (W. Silva)
09/2023 [30] Invited talk at Google DeepMind, London (J. Carreira)
07/2023 [29] Invited talk at Google Brain, Ghana (J. Hickey)
07/2023 [28] Invited talk at University of Ghana (JD. Abdulai)
06/2023 [27] Invited talk at Helsing AI, Germany (A. Bordes)
05/2023 [26] Invited talk at Computer Vision and Graphics Seminar, MIT (A. Torralba)
05/2023 [25] Invited talk at Computer Vision Group, University of Tempere (E. Rathu)
02/2023 [24] Invited talk at Computer Vision Center, Universitat Autonoma de Barcelona (D. Karatzas)
02/2023 [23] Invited lecture at Machine Learning Course, University of Edinburgh (H. Bilen)
02/2023 [22] Invited talk at Machine Learning and Computer Vision Group, University of Bristol (D. Damen, M. Wray)
02/2023 [21] Invited talk at AIMS seminar, University of Oxford (M. Osborne)
12/2022 [20] Invited talk at Computer Vision Group, University of Bern (P. Favaro)
10/2022 [19] Invited talk at AWS Research, Tel-Aviv (R. Litman)
09/2022 [18] Invited talk at the Machine Intelligence Laboratory, University of Cambridge (R. Cipolla, S. Albanie)
04/2022 [17] Invited talk at BMVA Symposium, Manchester
03/2022 [16] Invited talk at LMSS Seminar at INRIA, Rennes (L. Amsaleg)
12/2021 [15] Invited talk at Qualcomm-UvA Deep Vision Seminar at University of Amsterdam (E. Gavves)
11/2021 [14] Invited lecture at FACT-AI MSc course at University of Amsterdam (F. Santos)
10/2021 [13] Invited talk at CMIC & WEISS at medical imaging group University College London
09/2021 [12] Invited talk at International Workshop on Agentization, George Mason University
06/2021 [11] Invited talk at Imagine group at ENPC ParisTech (D. Picard)
05/2021 [10] Invited talk at Computer Vision Center, Universitat Autonoma de Barcelona (D. Karatzas)
03/2021 [9] Invited talk at Zalando Data Science Community Knowledge Exchange
01/2021 [8] Invited talk at Torr Vision Group and FiveAI (P. Torr)

10/2020 [7] Invited talk at UnitaryAI
06/2019 [6] Invited talk at Robotics and Autonomous Systems CDT Conference
03/2018 [5] Networks seminar, Mathematical Institute, University of Oxford
01/2018 [4] Balliol College interdisciplinary student seminar, University of Oxford
11/2017 [3] Networks seminar, Mathematical Institute, University of Oxford
10/2017 [2] Complexity Economics meeting, Institute for New Economic Thinking
08/2017 [1] Transdisciplinary methods research group, Potsdam Institute for Climate Impact Research

Service to the academic community

PhD Jury member:
2024 Sindy Löwe (University of Amsterdam)
Sarah Ibrahimi (University of Amsterdam)
Arthur Guo (intermediate assessment - University of Oslo)
2023 Fida Thoker (University of Amsterdam)
Vladimir Iashin (Tampere University)
Mohamed Sayed (University College London)
Committee/Evaluator:
2024 Evaluator for the Swiss National Science Foundation (SNSF) Spark Funding Scheme
Evaluator for the European Union AI-BOOST Large AI Challenge
2022 Member in the Ethical Committee for Student Projects at University of Amsterdam, Information Sciences
Area Chair:
2024 ICLR, CVPR, WACV, ECCV (Senior AC), NeurIPS
2023 CVPR, NeurIPS, NeurIPS workshops
2022 ECCV, ECCV workshop, NeurIPS workshop
Workshop Reviewer:
2024 ICML workshops
2023 NeurIPS workshops
Reviewer:
2023 ICCV (outstanding reviewer), IJCV
2022 CVPR, ICML (outstanding reviewer), ECCV, ECCV workshop, 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, Pregistration of Experiments, ImageNet PPF
2020 ACCV, NeurIPS workshops (2x): SSL Theory and Practice; Pregistration of Experiments

Organization of Workshops/ PhD schools

10/2024 ECCV Tutorial on Learning From Videos
Shashanka Venkataramanan, Mohammadreza Salehi, **YM. Asano**
06/2024 CVPR workshop on Representation Learning with Very Limited Images
H. Kataoka, **YM. Asano**, C. Rupprecht, R. Yokota, N. Inoue, D. Hendrycks, X. Boix, et al.
04/2024 ELLIS Winter School on *Foundation Models*
YM. Asano, C. Snoek, A. Pranindiati
12/2023 NeurIPS workshop on *Causal Representation Learning*
S. Magliacane, C. Eastwood, **YM. Asano**, C. Shi, A. Mastakouri, S. Lachapelle, C. Uhler, B. Schölkopf
10/2023 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
08/2021 Introductory 10-day workshop titled *Self-supervised learning and ethics* for the German National Academic Foundation (Studienstiftung) summer academy
YM. Asano, C. Rupprecht
08/2020 ECCV workshop on *Self-Supervised Learning: What is Next? (SSLWIN)*
YM. Asano, C. Rupprecht, and A. Joulin, A. Vedaldi

Summer/Winter School Lectures

03/2025 Lecturer at the Machine Learning Summer School in Okinawa 11/2024 Lecturer at ML in PL Conference

07/2024 Lecturer at African Computer Vision Summer School, Nairobi, Kenya
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

Academic development

University Teaching Qualification (BKO) courses (5 days), University of Amsterdam
Inclusive Learning Environment (1 day) , University of Amsterdam
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

Media/Art

2024 Art exhibit "To the lighthouse of dreams" on visualizing dreams during the pandemic using generative AI, with L. Weytingh and J. Tuorminen at *The New Institute, Rotterdam*
2022 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

References

[1] S. Venkataramanan, M. N. Rizve, J. Carreira, Y. M. Asano*, and Y. Avrithis*. Is imagenet worth 1 video? learning strong image encoders from 1 long unlabelled video. *ICLR*, 2024.

[2] S. Venkataramanan, A. Ghodrati, Y. M. Asano, F. Porikli, and A. Habibian. Skip-attention: Improving vision transformers by paying less attention. *ICLR*, 2024.

[3] T. F. van der Ouderaa, M. Nagel, M. van Baalen, Y. M. Asano, and T. Blankevoort. The llm surgeon. *ICLR*, 2024.

[4] L. Samson, N. Barazani, S. Ghebreab, and Y. M. Asano. Privacy-aware visual language models. *arXiv:2405.17423*, 2024.

[5] R. Romijnders, Y. M. Asano, C. Louizos, and M. Welling. Protect your score: Contact-tracing with differential privacy guarantees. *AAAI*, 2024.

[6] D. Kopiczko, T. Blankevoort, and Y. M. Asano. Vera: Vector-based random matrix adaptation. *ICLR*, 2024.

[7] D. Kopiczko, T. Blankevoort, and Y. M. Asano. Bitune: Bidirectional instruction-tuning. *arXiv:2405.14862*, 2024.

[8] L. Knobel, T. Han*, and Y. M. Asano*. Learning to count without annotations. *CVPR*, 2024.

[9] V. T. Hu, D. Wu, Y. M. Asano, P. Mettes, B. Fernando, B. Ommer, and C. G. M. Snoek. Flow matching for conditional text generation in a few sampling steps. *EACL*, 2024.

[10] M. Dorkenwald, N. Barazani, C. G. M. Snoek, and Y. M. Asano. Pin: Positional insert unlocks object localisation abilities in vlms. *CVPR*, 2024.

[11] B. Bergner, A. Skliar, A. Royer, T. Blankevoort, Y. M. Asano, and B. E. Bejnordi. Think big, generate quick: Llm-to-slm for fast autoregressive decoding. *arXiv:2402.16844*, 2024.

[12] O. Ülger, M. Kulicki, Y. M. Asano, and M. R. Oswald. Self-guided open-vocabulary semantic segmentation. *arXiv: 2312.04539*, 2023.

[13] P. Yang, C. G. M. Snoek*, and Y. M. Asano*. Self-ordering point clouds. *ICCV*, 2023.

[14] W. van den Dool, T. Blankevoort, M. Welling, and Y. M. Asano. Efficient neural pde-solvers using quantization aware training. *ICCV Workshop on Resource Efficient Deep Learning for Computer Vision*, 2023.

[15] V. Tsouvalas, Y. M. Asano, and A. Saeed. Federated fine-tuning of foundation models via probabilistic masking. *arXiv: 2311.17299*, 2023.

[16] M. Salehi, E. Gavves, C. G. M. Snoek, and Y. M. Asano. Time does tell: Self-supervised time-tuning of dense image representations. *ICCV*, 2023.

[17] R. Romijnders, Y. M. Asano, C. Louizos, and M. Welling. No time to waste: practical statistical contact tracing with few low-bit messages. *AISTATS*, 2023.

[18] P. Lippe, S. Magliacane, S. Löwe, Y. M. Asano, T. Cohen, and E. Gavves. Causal representation learning for instantaneous and temporal effects. *ICLR*, 2023.

[19] P. Lippe, S. Magliacane, S. Löwe, Y. M. Asano, T. Cohen, and E. Gavves. BISCUIT: Causal representation learning from binary interactions. *UAI*, 2023.

[20] S. Li, F. G. Zanjani, H. B. Yahia, Y. M. Asano, J. Gall, and A. Habibian. Valid: Variable-length input diffusion for novel view synthesis. *arXiv: 2312.08892*, 2023.

[21] M. Kilickaya, J. van de Weijer, and Y. M. Asano. Towards label-efficient incremental learning: A survey. *arXiv: 2302.00353*, 2023.

[22] V. T. Hu, D. W. Zhang, Y. M. Asano, G. J. Burghouts, and C. G. Snoek. Self-guided diffusion models. *CVPR*, 2023.

[23] V. T. Hu, W. Yin, P. Ma, Y. Chen, B. Fernando, Y. M. Asano, E. Gavves, P. Mettes, B. Ommer, and C. G. M. Snoek. Motion flow matching for human motion synthesis and editing. *arXiv: 2312.08895*, 2023.

[24] V. T. Hu, Y. Chen, M. Caron, Y. M. Asano, C. G. M. Snoek, and B. Ommer. Guided diffusion from self-supervised diffusion features. *arXiv: 2312.08825*, 2023.

[25] M. M. Derakhshani, I. Najdenkoska, M. Worring*, C. G. Snoek*, and Y. M. Asano*. Small visual language models can also be open-ended few-shot learners. *arXiv: 2310.00500*, 2023.

[26] Y. M. Asano* and A. Saeed*. The augmented image prior: Distilling 1000 classes by extrapolating from a single image. *ICLR*, 2023.

[27] A. Ziegler and Y. M. Asano. Self-supervised learning of object parts for semantic segmentation. *CVPR*, 2022.

[28] P. Yang, Y. M. Asano, P. Mettes, and C. G. Snoek. Less than few: Self-shot video instance segmentation. *ECCV*, 2022.

[29] J. Loedeman, M. Stol, T. Han, and Y. M. Asano. Prompt generation networks for efficient adaptation of frozen vision transformers. *arxiv preprint arxiv:2210.06466*, 2022.

[30] P. Lippe, S. Magliacane, S. Löwe, Y. M. Asano, T. Cohen, and E. Gavves. CITRIS: Causal identifiability from temporal intervened sequences. *ICML*, 2022.

[31] I. Laina, Y. M. Asano, and A. Vedaldi. Measuring the interpretability of unsupervised representations via quantized reversed probing. *ICLR*, 2022.

[32] L. Hanu, Y. M. Asano, T. James, and C. Rupprecht. Vtc: Improving video-text retrieval with user comments. *ECCV*, 2022.

[33] C. Borchers, D. S. Gala, B. Gilburt, E. Oravkin, W. Bounsi, Y. M. Asano, and H. R. Kirk. Looking for a handsome carpenter! debiasing gpt-3 job advertisements. *NAACL workshop on Gender Bias in NLP*, 2022.

[34] T. Afouras*, Y. M. Asano*, F. Fagan, A. Vedaldi, and F. Metze. Self-supervised object detection from audio-visual correspondence. *CVPR*, 2022.

[35] M. Patrick*, P.-Y. Huang*, Y. M. Asano*, I. Misra, F. Metze, A. Vedaldi, and J. F. Henriques. Space-time crop & attend: Improving cross-modal video representation learning. *ICCV*, 2021.

[36] M. Patrick*, P.-Y. Huang*, Y. M. Asano*, F. Metze, A. Hauptmann, J. F. Henriques, and A. Vedaldi. Support-set bottlenecks for video-text representation learning. *ICLR*, 2021.

[37] M. Patrick*, D. Campbell*, Y. M. Asano*, I. Misra, F. Metze, C. Feichtenhofer, A. Vedaldi, and J. F. Henriques. Keeping your eye on the ball: Trajectory attention in video transformers. *NeurIPS*, 2021.

[38] M. Patrick*, Y. M. Asano*, P. Kuznetsova, R. Fong, J. F. Henriques, G. Zweig, and A. Vedaldi. On compositions of transformations in contrastive self-supervised learning. *ICCV*, 2021.

[39] H. Kirk, Y. Jun, P. Rauba, G. Wachtel, R. Li, X. Bai, N. Broestl, M. Doff-Sotta, A. Shtedritski, and Y. M. Asano. Memes in the wild: Assessing the generalizability of the hateful memes challenge dataset. *ACL WOAH workshop 2021*, 2021.

[40] H. Kirk, Y. Jun, H. Iqbal, E. Benussi, F. Volpin, F. A. Dreyer, A. Shtedritski, and Y. M. Asano. Bias out-of-the-box: An empirical analysis of intersectional occupational biases in popular generative language models. *NeurIPS*, 2021.

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[43] Y. M. Asano, J. J. Kolb, J. Heitzig, and J. D. Farmer. Emergent inequality and business cycles in a simple behavioral macroeconomic model. *Proceedings of the National Academy of Sciences (PNAS)*, 2021.

[44] Y. M. Asano, C. Rupprecht, and A. Vedaldi. Self-labelling via simultaneous clustering and representation learning. *ICLR*, 2020.

[45] Y. M. Asano, C. Rupprecht, and A. Vedaldi. A critical analysis of self-supervision, or what we can learn from a single image. *ICLR*, 2020.

[46] Y. M. Asano, M. Patrick, C. Rupprecht, and A. Vedaldi. Labelling unlabelled videos from scratch with multi-modal self-supervision. *NeurIPS*, 2020.

[47] Y. M. Asano and G. Biermann. Rising adoption and retention of meat-free diets in online recipe data. *Nature Sustainability*, 2019.

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