09:00 09:15 09:30 09:45	Monday 2023-09-18	Tuesday 2023-09-19  Coffee	Wednesday 2023-09-20	Thursday 2023-09-21	Friday 2023-09-22
09:15 09:30 09:45		Coffee			i
09:30 09:45		Opening remarks (5 mins)	Coffee	Coffee	Coffee
10:00 10:15	free	Keynote: Sara Beery Open Challenges in Generalizable Computer Vision for Ecology	Keynote: Allison Hsiang  Deep learning in deep time: Using computer vision and automation to study morphology and structure of microfossil communities	Keynote: Alexander Mathis  Deep Learning Tools for the Analysis of Movement, Identity & Behavior	Keynote: Luca Pegoraro Towards automated insect monitoring in the wild: promises and challenges
10:30 10:45		Fika	Fika	Fika	Fika
11:00		Magali Frauendorf - Species and sex/age class identification models for trap cam images of Swedish wildlife	Meghan Balk - Assessing evolvability in a fossil lineage using a CV pipeline to produce phenomic data set	Valentin Gillet - From image stacks to neuronal connections: machine learning reveals insect neuroanatomy	Maja Tarka - Measuring multivariate beetle morphology in wild populations
11:15		Jonas Hentati-Sundberg - Sensors and Al for automated seabird monitoring	Erik Svensson - Using thermal imaging to study quantitative genetics and selection on plasticity and thermal adaptation: insights from insects and birds	Harshith Bachimanchi - Bringing microplankton to focus: Holography and deep learning	Najmeh Abiri - Tick Species Classification Using Deep Learning Models: Challenges and Solutions in Citizen Science Projects
11:30		Lars Holmberg - Ageing and sexing birds	Anjali Goswami (given by Yichen He) - Biodiversity Phenomics: From Development to Deep Time	Hanbang Zou - Deep learning-based object detection for soil bacterial community analysis in microfluidics	Ola Olsson - High-throughput quantitative pollen analysis based on computer vision and deep learning
11:45		Chris Cooney - Advancing the study of bird colour evolution using Al and computer vision	Yichen He - A Deep Learning Pipeline to Quantify Cranial Suture Morphology from 3D Scans	Nikolay Oskolkov - Applications of Computer Vision for Studying Cell Morphology	Giuseppe Bianco - Engineering image acquisition for CV
12:00 12:15 12:30 12:45 13:00		LUNCH (self-catered)	LUNCH (self-catered)	LUNCH (self-catered)	LUNCH (self-catered)
13:15 13:30 13:45 14:00		Keynote: Ben Weinstein Towards general models for airborne ecological monitoring	Keynote: TBA	Keynote: Seth Donoughe Quantifying tissue traits to reveal how developmental mechanisms shape macroevolutionary trajectories	Keynote: Quentin Geissmann Insect Ecology in the Digital Age: Smart Traps and Automated Identification
14:15	Coffee	leg-stretcher	leg-stretcher	leg-stretcher	Closing Remarks (5 mins)
14:30 <b>Em</b> a	Emanuel Larsson - Image Analysis and Visualization support at Lund University  Morkshop lecture: Ben Weinstein A short introduction to applied computer vision	Workshop lecture: Ben Weinstein	Sridhar Halali - Using micro-CT imaging to unravel the evolution of sensory traits in butterflies	Matteo Redana - "Tracking" thermal sublethal effect for freshwater ectotherms	
14:45		Moritz Lürig - Mapping out morphospace in a color-polymorphic insect using deep learning			
	Alexandros Sopasakis - Building Autonomous Image Analysis Systems for Applications in Ecology  Workshop lecture: Allison Hsiang Building training datasets		Masahito Tsuboi - What phenomics will and will not teach us	Open panel discussion	
15:15		Building training datasets	Roberta Hunt - Using AI to Generate Phylogenetic Trees from Images of Pinned Insects		
15:30 15:45	Fika	Fika	Fika	Fika	free / time for meetings
	Jonas Ahlstedt - Combining Image Analysis and Visualisation in Blender 3D  Workshop lecture: Alexander Mathis The basics of automated movement detection and pose estimation  Kalle Aström - Natural and Artificial Cognition and Al Lund  Workshop lecture: Quentin Geissmann DIY hardware for image/video acquisition	The basics of automated movement detection and pose			
16:15					
16:30 <b>Kal</b> 16:45		Social activity:			
17:00	Poster session	Workshop lecture: Sara Beery The CV4Ecology program	Team-games at Vattenhallen Science-Center (5 min. walking from Forum venue)	free / time for meetings	
17:15					Traditional "Friday Pub" Ecology Building
17:30 17:45		free / time for meetings			