



Preliminary Program 2023

Date	Time	Event	Title	Location
Week 1				
8th of Jan 2023	16:00 -18:00	Registration		Krystal Beach Hotel: Foyer
Day 1				
9th of Jan 2023	08:00-08:45	Late Registration		Krystal Beach Hotel : Foyer
9th of Jan 2023	08:45 - 09:30	Welcoming: Dr McElory Hoffmann - CEO Praelexis & Prof Kanshu Rajaratnam: CEO of School of Data Science and Computational Thinking	Welcome & Thank you	Krystal Beach Hotel : Conference Room 1
		Opening speech: Premier Allan Winde		
		Alex Shabala- Head of Data Science Capitec		
9th of Jan 2023	09:30 -11:30	Speaker: Prof. John Shawe-Taylor	1.The Foundations of Kernel Methods for Machine Learning	Krystal Beach Hotel: Conference Room 1

11:30- 11: 45 - Tea Break – Foyer

9th of Jan 2023	11:45 -12:45	Speaker: Ulrich Paquet	1.Machine Learning for Recommender Systems and Online Advertising	Krystal Beach Hotel: Conference Room 1
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12:45 -14:00 Lunch Hotel Restaurant

9th of Jan 2023	14:00- 15:00	Speaker: Sebastian Bodenstein	1.AlphaFold	Krystal Beach Hotel: Conference Room 1
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15: 00-15: 30 Tea Break- Floyer

9th of Jan 2023	15:30- 16:30	Speaker: Assoc.Prof. Willie Brink	1.Workshop: Introduction to deep Neural Networks	Krystal Beach Hotel: Conference Room 1
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Day 2

10th of Jan 2023	09:00-10:00	Speaker: Ulrich Paquet	2.Machine Learning for Recommender Systems and Online Advertising	Krystal Beach Hotel: Conference Room 1
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10th of Jan 2023	10:00-11:00	Speaker: Ulrich Paquet	3.Machine Learning for Recommender Systems and Online Advertising	Krystal Beach Hotel: Conference Room 1
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11:00- 11: 30 - Tea Break – Foyer

10th of Jan 2023	11:30:00 -12:30	Speaker: Prof. John Shawe-Taylor	3.The Foundations of Kernel Methods for Machine Learning	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
10th of Jan 2023	14:00- 15:00	Speaker: Sebastian Bodenstein	2.AlphaFold	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Foyer				
10th of Jan 2023	15:30- 16:30	Speaker: Assoc.Prof. Willie Brink	2.Workshop: Introduction to deep Neural Networks	Krystal Beach Hotel: Conference Room 1
Day 3				
11th of Jan 2023	09:00-10:00	Speaker: Ferenc Huszár	1.Theory of Deep Learning or Understanding Generalisation in Deep Learning this time around. I focus on questions of stochastic optimization in overparametrized models these days, and I run a course on 'Theory of Deep Learning' in Cambridge.	Krystal Beach Hotel: Conference Room 1
11th of Jan 2023	10:00-11:00	Speaker: Ferenc Huszár	2.Theory of Deep Learning or Understanding Generalisation in Deep Learning this time around. I focus on questions of stochastic optimization in overparametrized models these days, and I run a course on 'Theory of Deep Learning' in Cambridge.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
11th of Jan 2023	11:30 -12:30	Speaker: Dr. Naila Murray	1.Weakly-supervised learning techniques for training deep vision models"?	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				

11th of Jan 2023	14:00- 15:00	Speaker: Sebastian Bodenstein	3.AlphaFold	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Foyer				
11th of Jan 2023	15:30- 16:30	Speaker: Assoc.Prof. Willie Brink	3.Workshop: Introduction to deep Neural Networks	Krystal Beach Hotel: Conference Room 1
Day 4				
12th of Jan 2023	09:00-10:00	Speaker: David Forsyth	1.Computer vision for autonomous vehicles.	Krystal Beach Hotel: Conference Room 1
12th of Jan 2023	10:00-11:00	Speaker: David Forsyth	2.Computer vision for autonomous vehicles.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
12th of Jan 2023	11:30 -12:30	Speaker: Dr. Naila Murray	2.Weakly-supervised learning techniques for training deep vision models"?.	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
12th of Jan 2023	14:00 - 15:00	Speaker: Ferenc Huszár	3.Theory of Deep Learning or Understanding Generalisation in Deep Learning this time around. I focus on questions of stochastic optimization in overparametrized models these days, and I run a course on 'Theory of Deep Learning' in Cambridge.	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Foyer				
12th of Jan 2023	15:30- 16:30	Speaker: Sara Beery	1.Domain adaptation and generalization from both a theoretical and an applied point of view.	Krystal Beach Hotel: Conference Room 1
Day 5				
13th of Jan 2023	09:00-10:00	Speaker: Sara Beery	2.Domain adaptation and generalization from both a theoretical and an applied point of view.	Krystal Beach Hotel: Conference Room 1
13th of Jan 2023	10:00-11:00	Speaker: Sara Beery	3.Domain adaptation and generalization from both a theoretical and an applied	Krystal Beach Hotel: Conference Room 1

			point of view.	
11:00- 11: 30 - Tea Break - Foyer				
13th of Jan 2023	11:30 -12:30	Speaker: Dr. Naila Murray	3.Weakly-supervised learning techniques for training deep vision models"?.	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
13th of Jan 2023	14:00- 15: 00	Speaker: Speaker: David Forsyth	3.Training deep vision models in low-data regimes.	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Foyer				
13th of Jan 2023	15:30- 16:30	Speaker: Marko Grobelnik	1.Cross-lingual Global Media Monitoring	Krystal Beach Hotel: Conference Room 1
13th of Jan 2023	19:00	Conference Dinner		Eikenhof Estate
Week 2, Day 1				
16th of Jan 2023	09:00 -10:00	Speaker: Prof. Dr. Nicu Sebe	1. Learning to Adapt: Adapting Deep Models to Domain and Semantic Shift.	Krystal Beach Hotel: Conference Room 1
16th of Jan 2023	10:00 -11:00	Speaker: Prof. Dr. Nicu Sebe	2. Deep Generative Models for Image/Video Generation.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
16th of Jan 2023	11:30 -12:30	Speaker: Dr. Xavier Alameda-Pineda	1.Unsupervised Probabilistic Learning with Latent Variables: from the Expectation-Maximisation Algorithm to Deep Variational Models.	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
16th of Jan 2023	14:00- 15:00	Speaker: Inga Strümke	1.Explainable AI	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Foyer				
16th of Jan 2023	15:30- 16:30	Speaker: Marko Grobelnik	2.Evolution of Artificial Intelligence and Related Regulatory Issues	Krystal Beach Hotel: Conference Room 1

16th of Jan 2023	16:30- 17:30	Speaker: Prof. Dr. Paul Lukowic	Lecture 1: Classical signal processing and feature engineering	Krystal Beach Hotel: Conference Room 1
Day 2				
17th of Jan 2023	09:00 -10:00	Speaker:Prof. Dr. Nicu Sebe	3. Playable Video Generation and Playable Environments	Krystal Beach Hotel: Conference Room 1
17h of Jan 2023	10:00-11:00	Speaker:Dr. Xavier Alameda-Pineda	2.Unsupervised Probabilistic Learning with Latent Variables: from the Expectation-Maximisation Algorithm to Deep Variational Models.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
17h of Jan 2023	11:30 -12:30	Speaker: Dr. Xavier Alameda-Pineda	3.Unsupervised Probabilistic Learning with Latent Variables: from the Expectation-Maximisation Algorithm to Deep Variational Models.	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
17h of Jan 2023	14:00- 15:00	Speaker: Inga Strümke	2.Explainable AI	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Floyer				
17h of Jan 2023	15:30- 16:30	Speaker: Inga Strümke	3.Explainable AI	Krystal Beach Hotel: Conference Room 1
17h of Jan 2023	16:30- 17 :30	Speaker:Prof. Dr. Paul Lukowic	Lecture 2: Deep learning architectures	Krystal Beach Hotel: Conference Room 1
Day 3				
18th of Jan 2023	09:00-10:00	Speaker: Matthias Bauer	1.Probabilistic-generative modelling and would cover either all or some of the following: VAEs (with a bit of background on variational inference + potentially probabilistic PCA), normalizing flows, and potentially an	Krystal Beach Hotel: Conference Room 1

			outlook/connection to diffusion models.	
18th of Jan 2023	10:00-11:00	Speaker:Matthias Bauer	2.Probabilistic-generative modelling and would cover either all or some of the following: VAEs (with a bit of background on variational inference + potentially probabilistic PCA), normalizing flows, and potentially an outlook/connection to diffusion models.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
18th of Jan 2023	11:30 -12:30	Speaker: Prof. Matt Jones, Jen Pearson,Thomas Reitmaier,Simon Robinson	Lectures 1: The Robots are Coming, be Afraid! How to fight back with Human-Centered Machine Learning Approaches	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
18th of Jan 2023	14:00- 15: 00	Speaker:Prof. Matt Jones, Jen Pearson,Thomas Reitmaier,Simon Robinson	Lecture 2: Methodologies for Diversifying Perspectives in ML Design and Development.	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Floyer				
18th of Jan 2023	15:30- 16:30	Speaker: Prof. Dr. Paul Lukowic	Lecture 3: Self supervised methods and few/zero shot learning	Krystal Beach Hotel: Conference Room 1
Day 4				
19th of Jan 2023	09:00 -10:00	Speaker: Prof. Bettina Berendt	1.AI Ethics: Some Important Concepts.	Krystal Beach Hotel: Conference Room 1

19th of Jan 2023	10:00-11:00	Speaker: Prof. Matt Jones, Jen Pearson, Thomas Reitmaier, Simon Robinson	Lecture 3: Case Study: Speech Interactions designed and developed using human-centred machine learning approaches.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
19th of Jan 2023	11:30 -12:30	Speaker: Matthias Bauer	3. Probabilistic-generative modelling and would cover either all or some of the following: VAEs (with a bit of background on variational inference + potentially probabilistic PCA), normalizing flows, and potentially an outlook/connection to diffusion models.	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
19th of Jan 2023	14:00- 15: 00	Speaker: Prof. Dr. Steve Kroon	1. Normalizing flows and VAEs.	Krystal Beach Hotel: Conference Room 1
15: 00-15: 30 Tea Break- Foyer				
19th of Jan 2023	15:30- 16:30	Speaker: Prof. Dr. Steve Kroon	2. Normalizing flows and VAEs.	Krystal Beach Hotel: Conference Room 1
19th of Jan 2023	16:30- 17 30	Speaker: Gianluca Detommaso	Workshop: Uncertainty quantification	Krystal Beach Hotel: Conference Room 1
Day 5				
20th of Jan 2023	09:00-10:00	Speaker: Prof. Bettina Berendt	2. AI Ethics: Calling Bullshit.	Krystal Beach Hotel: Conference Room 1
20th of Jan 2023	10:00-11:00	Speaker: Prof. Bettina Berendt	3. AI Snake Oil.	Krystal Beach Hotel: Conference Room 1
11:00- 11: 30 - Tea Break - Foyer				
20th of Jan 2023	11:30 -12:30	Speaker: Prof. Dr. Steve Kroon	3. Normalizing flows and VAEs.	Krystal Beach Hotel: Conference Room 1
12:30-14:00 Lunch Hotel Restaurant				
20th of Jan 2023	14:00-15:00	Speaker: Dèrick Swart	Responsible AI.	Krystal Beach Hotel: Conference Room 1

20th of Jan 2023	15:00-16:00	Panel Discussion: 1.Prof. Bettina Berendt, & 2. Dérick Swart	Responsible AI.	Krystal Beach Hotel: Conference Room 1
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