Hyunjik Kim

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Areas of interest

Video Generation — Latent Space Design, Data Annotation, Scaling Laws, Decoding, Evaluation, Controllability, Inference.

Neural Compression — Efficient image and video compression with fast decoding. Compression with neural fields.

Work

Oct 2025 onwards — **Research Scientist at Google DeepMind**, New York, US.

Apr 2025 – Oct 2025 — **ML Researcher at Apple**, New York, US.

Sep 2017 – Jan 2025 — **Research Scientist at Google DeepMind**, London, UK.

Jun – Sep 2017 — **Research Intern at DeepMind**, London, UK.

Jun – Aug 2015 — **Research Intern at Microsoft Research (MSR)**, Cambridge, UK.

Education

Oct 2015 - Jul 2019 — **University of Oxford**, PhD in Machine Learning.

- Areas of Research: Attention, Disentangling, Deep Generative Models, Gaussian Processes
- Supervised by **Yee Whye Teh**, Professor of Statistical Machine Learning of the Statistics Department.

2011 – 2015 — **Trinity College, University of Cambridge**, BA (Hons.), MMath in Mathematics.

- **Part IA:** First Class Honours **Part IB:** First Class Honours **Part II:** First Class Honours **Part III(MMath):** Distinction

2007 – 2011 — **Hampton School**, Middlesex.

- **Balkan Mathematical Olympiad:** Bronze Medal (Member of UK national Team)
- **British Mathematical Olympiad:** UK top 10. **British Physics Olympiad:** Gold Medal, UK top 20

Highlight Work / Publications

See Google Scholar for full list.

2024 — One of 20 full-time core contributors to Veo, Google's most capable video generation model to date. Work focused on pre-training: data, latent space design and deocder.

2024 — **Kim***, Bauer*, Theis, Schwarz, Dupont*. **C3: High-performance and low-complexity neural compression from a single image or video**. *CVPR 2024*.

2023 — Bauer*, Dupont, Brock, Rosenbaum, Schwarz, **Kim***. **Spatial Functa: Scaling Functa to ImageNet Classification and Generation**. *ICLR 2023 WOrkshop: Neural Fields across Fields*.

2022 — Dupont*, **Kim***, Eslami, Rezende, Rosenbaum. **From data to functa: Your data point is a function and you can treat it like one**. *ICML 2022*.

2021 — J. Xu, **H. Kim**, T. Rainforth, Y. W. Teh. **Group Equivariant Subsampling**. *Neurips 2021*.

2021 — M. Hutchinson, C. Le Lan, S. Zaidi, E. Dupont, Y. W. Teh, **H. Kim**. **LieTransformer: Equivariant Self-Attention for Lie Groups**. *ICML 2021*.

2021 — **H. Kim**, Papamakarios, Mnih. **The Lipschitz Constant of Self-Attention**. *ICML 2021*.

2019 — **H. Kim** et al. **Attentive Neural Processes**. *ICLR 2019*.

2018 — **H. Kim** and A. Mnih. **Disentangling by Factorising**. *ICML 2018*.

Academic Services

2024 — Invited Talk at **CVPR 2024 Workshop on Implicit Neural Representations for Vision**

2023 — Lead Organizer of ICLR 2023 First workshop on Neural Fields: **Neural Fields across all Fields**

2018-2024 — Revewer at NeurIPS, CVPR, ICML, ICLR, AISTATS, UAI

Additional Skills/Activities

Languages — Korean(Native), English(Fluent), French(Advanced-C1), Spanish(Intermediate-B2), Japanese(Intermediate-N3)

Leadership — Undergraduate President of Cambridge University Korean Society(CUKS)[2012-2013]

Sport — Active football (soccer) player. Founder, captain and player of DeepMind football team **Neural Netters**. Also played with *Oxford Worcester College and Oxford University Korean Society*.

Referees

Yee Whye Teh (PhD Supervisor) — **Department of Statistics, University of Oxford**, 24-29 St Giles, Oxford OX1 3LB, y.w.teh@stats.ox.ac.uk.

Sander Dieleman (Manager at GDM) — **DeepMind**, Six Pancras Square, Kings Cross, London N1C 4AG, sedielem@google.com.