

## ***Curriculum Vitae: MATTHIJS MICHIEL MAAS***

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Centre for the Study of Existential Risk, 16 Mill Lane, Cambridge, CB2 1SB, United Kingdom

**Postdoctoral Research Associate**, *Centre for the Study of Existential Risk, University of Cambridge, UK.*

**College Research Associate**, *King's College, University of Cambridge, UK.*

**Research statement:** my research focuses on the regulation & governance of high-stakes risks from emerging technologies, specifically artificial intelligence. This involves, amongst others, assessments of the challenges and opportunities AI systems may pose for international law; the design of global regime complexes for the governance of emerging technologies, and the legal basis and political conditions for the international control or nonproliferation of destabilizing military AI systems.

### **Academic Experience**

- 05 / 2021 – 07 / 2021** | **Summer Research Fellow**, Legal Priorities Project
- 10 / 2020 – present** | **Postdoctoral Research Associate, Centre for the Study of Existential Risk & Centre for the Future of Intelligence** (University of Cambridge—Cambridge, UK)
- 10 / 2020 – present** | **College Research Associate** (King's College, University of Cambridge).
- 09 / 2017 – 09 / 2020** | **PhD Fellow, Centre for International Law and Governance** (The University of Copenhagen, Faculty of Law—Copenhagen, Denmark)
- PhD Dissertation *Artificial Intelligence Governance Under Change: Foundations, Facets, Frameworks*, under Prof. Hin-Yan Liu and Prof. Kristian Lauta. Defended on 21<sup>st</sup> of April, 2021, to a panel consisting of Prof. Mikael Rask Madsen, Lyria Bennett Moses, and Ingvild Bode.
  - Spring 2019: prepared and taught MA-level course 'Artificial Intelligence and Legal Disruption'
  - Prepared MA-level course 'Law and Policy for Global Catastrophic and Existential Threats'
  - October-November 2018: research stay at Center for the Governance of AI (Future of Humanity Institute, University of Oxford).
- 01 / 2018 – 07 / 2020** | **Research Affiliate, Center for the Governance of AI** (University of Oxford).
- 05 / 2016 – 01 / 2018** | **Researcher, Global Politics of Artificial Intelligence (GP-AI) Research Group**, (Yale University and University of Oxford)
- Supported research projects, including 'AI Governance: a Research Agenda'
  - Coordinated a network of over a dozen research assistants in conducting diverse research projects.
- 05 / 2016 – 08 / 2018** | **Junior Associate, Global Catastrophic Risks Institute (GCRI)**

### **Education & Qualifications**

- 04 / 2016 – 07 / 2016** | **FullStack Web Development Bootcamp**, (Le Wagon / B. Startup School Amsterdam)
- 09 / 2012 – 08 / 2013** | **MSc in International Relations; graduated With Distinction** (The University of Edinburgh—Edinburgh, UK)
- 08 / 2009 – 05 / 2012** | **BA, Liberal Arts & Sciences; graduated Cum Laude (GPA of 3.6/4.0)** (University College Utrecht—Utrecht, The Netherlands)

### **Selected Publications**

Journal articles:

- Stix, Charlotte, and **Matthijs M. Maas**. “Bridging the Gap: The Case for an ‘Incompletely Theorized Agreement’ on AI Policy.” *AI and Ethics*, January 15, 2021. <https://doi.org/10.1007/s43681-020-00037-w>.
- Liu, Hin-Yan, and **Matthijs M. Maas**. “‘Solving for X?’ Towards a Problem-Finding Framework to Ground Long-Term Governance Strategies for Artificial Intelligence.” *Futures* 126 (February 1, 2021): 22. <https://doi.org/10.1016/j.futures.2020.102672>.
- Cihon, Peter, **Matthijs M. Maas**, and Luke Kemp. “Fragmentation and the Future: Investigating Architectures for International AI Governance.” *Global Policy* 11, no. 5 (November 2020): 545–56. <https://doi.org/10.1111/1758-5899.12890>.
- Liu, Hin-Yan, **Matthijs Maas**, John Danaher, Luisa Scarcella, Michaela Lexer, and Leonard Van Rompaey. “Artificial Intelligence and Legal Disruption: A New Model for Analysis.” *Law, Innovation and Technology* (September 16, 2020): 1–54. <https://doi.org/10.1080/17579961.2020.1815402>.
- Liu, Hin-Yan, Kristian Cedervall Laut, and **Matthijs M. Maas**. “Apocalypse Now? Initial Lessons from COVID-19 for the Governance of Existential and Global Catastrophic Risks” *Journal of International Humanitarian Legal Studies* 11, no.2 (2020): 1-16. <https://doi.org/10.1163/18781527-01102004>
- Levin, John-Clark, and **Matthijs M. Maas**. “Roadmap to a Roadmap: How Could We Tell When AGI is a ‘Manhattan Project’ Away?” *Proceedings of ECAI/EPAI 2020*. [http://dmip.webs.upv.es/EPAI2020/papers/EPAI\\_2020\\_paper\\_11.pdf](http://dmip.webs.upv.es/EPAI2020/papers/EPAI_2020_paper_11.pdf)
- Hayward, Keith J, and **Matthijs M Maas**. “Artificial Intelligence and Crime: A Primer for Criminologists.” *Crime, Media, Culture*, June 30, 2020, 1741659020917434. <https://doi.org/10.1177/1741659020917434>.
- Cihon, Peter, **Matthijs M. Maas**, and Luke Kemp. “Should Artificial Intelligence Governance Be Centralised? Design Lessons from History.” In *Proceedings of the 2020 AAAI/ACM Conference on AI, Ethics, and Society (AIES '20)*, 228-34. New York, NY, USA: ACM, 2020. <https://doi.org/10.1145/3375627.3375857>.
- **Maas, Matthijs M.** “International Law Does Not Compute: Artificial Intelligence and The Development, Displacement or Destruction of the Global Legal Order.” *Melbourne Journal of International Law* 20, no. 1 (2019): 29–56. [law.unimelb.edu.au/\\_data/assets/pdf\\_file/0005/3144308/Maas.pdf](http://law.unimelb.edu.au/_data/assets/pdf_file/0005/3144308/Maas.pdf)
- **Maas, Matthijs M.** “Innovation-Proof Governance for Military AI? How I Learned to Stop Worrying and Love the Bot.” *Journal of International Humanitarian Legal Studies* 10, no. 1 (2019): 129–57. [doi.org/10.1163/18781527-01001006](https://doi.org/10.1163/18781527-01001006).
- **Maas, Matthijs M.** “How Viable Is International Arms Control for Military Artificial Intelligence? Three Lessons from Nuclear Weapons.” *Contemporary Security Policy* 40, no. 3 (February 6, 2019): 285–311. [doi.org/10.1080/13523260.2019.1576464](https://doi.org/10.1080/13523260.2019.1576464).
  - Paper shortlisted for the [2020 Bernard Brodie Prize](#).
- Baum, Seth D., Stuart Armstrong, Timoteus Ekenstedt, Olle Häggström, Robin Hanson, Karin Kuhlemann, **Matthijs M. Maas**, et al. “Long-Term Trajectories of Human Civilization.” *Foresight* 21, no. 1 (February 11, 2019): 53–83. [doi.org/10.1108/FS-04-2018-0037](https://doi.org/10.1108/FS-04-2018-0037).
  - (paper also featured in the BBC Future, at [www.bbc.com/future/story/20190109-the-perils-of-short-termism-civilisations-greatest-threat](http://www.bbc.com/future/story/20190109-the-perils-of-short-termism-civilisations-greatest-threat) ).
  - Paper awarded the 2020 Literati Award for ‘Outstanding Paper’ <https://www.emeraldgroupublishing.com/journal/fs/literati-awards/foresight-literati-award-winners-2020>
- Liu, Hin-Yan, Kristian Cedervall Laut, and **Matthijs Michiel Maas**. “Governing Boring Apocalypses: A New Typology of Existential Vulnerabilities and Exposures for Existential Risk Research.” *Futures* 102 (2018): 6–19. [doi.org/10.1016/j.futures.2018.04.009](https://doi.org/10.1016/j.futures.2018.04.009).

- **Maas, Matthijs M.** “Two Lessons from Nuclear Arms Control for the Responsible Governance of Military Artificial Intelligence.” In *Envisioning Robots in Society – Power, Politics, and Public Space*, Vol. 311. Frontiers in Artificial Intelligence and Applications. IOS Press, 2018. [doi.org/10.3233/978-1-61499-931-7-347](https://doi.org/10.3233/978-1-61499-931-7-347).
- **Maas, Matthijs M.** “Regulating for ‘Normal AI Accidents’—Operational Lessons for the Responsible Governance of AI Deployment.” In *Proceedings of the 2018 AAAI / ACM Conference on Artificial Intelligence, Ethics and Society*. New Orleans: Association for the Advancement of Artificial Intelligence, 2018. [www.aies-conference.com/wp-content/papers/main/AIES\\_2018\\_paper\\_118.pdf](http://www.aies-conference.com/wp-content/papers/main/AIES_2018_paper_118.pdf).

#### Other publications (reports):

- Belfield, Haydn, José Hernández-Orallo, Seán Ó hÉigeartaigh, **Matthijs M. Maas**, Alexa Hagerty, and Jess Whittlestone. “Consultation on the White Paper on AI – a European Approach”. Submission to European Commission public consultation. Centre for the Study of Existential Risk. <https://www.cser.ac.uk/news/response-european-commissions-consultation-ai/> - June 15, 2020.
- Kemp, Luke, Peter Cihon, **Matthijs Michiel Maas**, Haydn Belfield, and Zoe Cremer. “UN High-Level Panel on Digital Cooperation: A Proposal for International AI Governance.” UN High-Level Panel on Digital Cooperation, February 26, 2019. [digitalcooperation.org/wp-content/uploads/2019/02/Luke\\_Kemp\\_Submission-to-the-UN-High-Level-Panel-on-Digital-Cooperation-2019-Kemp-et-al.pdf](https://digitalcooperation.org/wp-content/uploads/2019/02/Luke_Kemp_Submission-to-the-UN-High-Level-Panel-on-Digital-Cooperation-2019-Kemp-et-al.pdf).
- **Maas, Matthijs M.**, Tim Sweijts, and Stephan De Spiegeleire. *Artificial Intelligence and the Future of Defense: Strategic Implications for Small- and Medium-Sized Force Providers*. The Hague, The Netherlands: The Hague Centre for Strategic Studies, 2017. [hcss.nl/report/artificial-intelligence-and-future-defense](https://hcss.nl/report/artificial-intelligence-and-future-defense).

#### Reviewer:

*Global Policy; Futures; European Journal of International Security, Science and Engineering Ethics, Foresight; RUSI Journal; St Antony’s International Review; Risk, Hazards & Crisis in Public Policy; International Review of the Red Cross; Retskraft.*

#### Student Thesis Supervision:

- June-August 2021: mentor at Cambridge Existential Risk Initiative
- Fall 2020: Suvradip Maitra: independently coached a former student to rewrite an excellent course paper, and submit to AAAI/ACM Conference on *AI, Ethics and Society*, where he was consequently accepted as only undergraduate.
  - See: Maitra, Suvradip. “Artificial Intelligence and Indigenous Perspectives: Protecting and Empowering Intelligent Human Beings.” In *Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society*, 320–26. New York NY USA: ACM, 2020. [doi.org/10.1145/3375627.3375845](https://doi.org/10.1145/3375627.3375845).
- Summer 2019-present (supervision of independent research, organized through FHI-GovAI). Tobias Pulver: *Shaping policy as experts: An epistemic community for (transformative) AI governance?*
- Fall 2019: Masters Thesis. Mayra Futema: *Discrimination in the rise of automated decisions - A critical appraisal of the GDPR legal responses to protect rights and freedoms*. Grade 12/12.
- Spring 2019: Masters Thesis. Rahman Nayil: *From Darkness to Light: An Analysis of Privacy Issues Relating to Algorithmic Black Box Medicine*. Grade 12/12.
- Spring 2019: Masters Thesis. Laura Emily Christiansen: *The Patentability of AI-made Inventions*. Grade 12/12.
- Spring 2019: Masters Thesis. Edward St. John Maurice Treacy: *International Law Regulation of Cyber Activities Below the Threshold of ‘Force’*. Grade 12/12.

## Selected Presentations & Speaking Engagements

Between December 2016 – June 2020, Matthijs has presented his research at 18 international conferences, workshops, or public events. This includes invitation-only events organized by UNIDIR and the Centre for the Study of Existential Risk; prestigious subject area conferences such as the AAI/ACM Conference on Artificial Intelligence, Ethics, and Society, TILTING Perspectives, or the Cambridge International Law Journal Conference; and accessible public events such as the Copenhagen TechFestival. A detailed list of presentations & speaking engagements is available upon request.

- **June 7<sup>th</sup>, 2021:** CHAI Virtual Workshop – ‘*Capability-Scalable AI Governance? Precedent or Adaptability?*’
- **June 7<sup>th</sup>, 2021:** Gothenburg University – Chalmers AI Research Centre event on ‘Quo Vadis, AI Ethics?’. Presentation title: ‘*Bridging the gap: the case for an ‘Incompletely Theorized Agreement’ on AI Policy*’.
- **April 9<sup>th</sup>, 2021:** Paper discussion at International Studies Association (ISA 2021) – FC12: Theoretical Perspectives on International Law. Title: ‘*Rebooting International Law? Artificial Intelligence and the (De)Fragmentation of the Liberal International Order*’.
- **March 20<sup>th</sup>, 2021:** presentation at Law, Technology and Disruption Conference, City University of Hong Kong. Title: “‘*Solving for X?*’ *Towards a problem-finding framework to ground long-term governance strategies for artificial intelligence*”
- **February 19<sup>th</sup>, 2021:** lecture to the Asser Institute Winter Academy on Artificial Intelligence and Law 2021. Title: *International Governance of Artificial Intelligence: Charting a Regime Architecture*
- **December 4, 2020:** keynote at the Effective Altruism Netherlands event on Longtermism. Title: “*The Long-Term, Up-Close: Developments, Debates, Directions*”
- **November 25<sup>th</sup>, 2020:** participated in McLaughlin College Debate: ‘*AI as an Existential Risk*’
- **February 7, 2020:** Lightning talk and poster presentation at AAI/ACM Conference on Artificial Intelligence, Ethics, and Society 2020. New York, USA. Title: “*Should Artificial Intelligence Governance be Centralised? Design Lessons from History*”
- **October 4, 2019:** Presentation at University of Southern Denmark, Centre for War Studies Annual Conference on ‘Technology & Digitalization as Forces of Change’. Title: “*...A Crack in Everything? Facing ‘Normal Accidents’ in Military AI Systems*”.
- **August 28, 2019:** Presentation and panel discussion at University of Gothenburg event on *AI for Health and Healthy AI*. Title: ‘*Governing for safe AI systems in the near- and long-term*’. Invited by Olle Häggström.
- **July 15-16, 2019:** CIFAR/UNIDIR workshop: *Regulating Defense and Security AI Technologies: Options Beyond Traditional Arms Control*. Toronto. By invitation.
- **May 16<sup>th</sup>, 2019:** panel presentation at the TILTING Perspectives conference: *A General Framework for Identifying Technology-Driven Legal Disruption: the Case of Artificial Intelligence*.
- **March 21, 2019:** panel presentation at 8<sup>th</sup> Cambridge International Law Journal Conference 2019: ‘*International Law Does Not Compute? Artificial Intelligence and the Development, Displacement, or Destruction of the Global Legal Order.*’ [www.youtube.com/watch?v=a1gREVAQP58](https://www.youtube.com/watch?v=a1gREVAQP58)
- **February 6, 2019:** talk at ‘Tech&Law Breakfast’ at the Digitalisation Hub (Faculty of Law, University of Copenhagen). Title ‘*AI as threat and opportunity for the global legal order*’
- **November 16, 2018:** paper presentation at Beyond Killer Robots conference (Copenhagen). Title ‘*Innovation-Proof Governance for Military Artificial Intelligence? How I learned to stop worrying, and love the bot*’.

- **October 16, 2018:** opening keynote at Copenhagen Common Session Conference on Critical Criminology. Title: *'AI, Crime, and Policing: Now That We're In The Future, What Does That Look Like?'*
- **September 21-22, 2018:** remote participation in interdisciplinary workshop organized by Centre for the Study of Existential Risk (CSER), on *'Plutonium, Silicon & Carbon: cybersecurity risks of nuclear weapons systems'*.
- **September 8, 2018:** Workshop 'AI and Legal Disruption' at Copenhagen TechFestival 2018.
- **June 4-7, 2018:** selected to represent Denmark in the Holberg Prize Masterclass 2018 with Prof. Cass Sunstein. Title of talk: *"Human Error about-, in-, and with- AI"*. Attended Holberg Prize Week. Bergen, Norway. [www.holbergprisen.no/en/news/holberg-prize/meet-2018-masterclass-panellists](http://www.holbergprisen.no/en/news/holberg-prize/meet-2018-masterclass-panellists) ; Video at: [www.youtube.com/watch?v=YjhY6mVG2\\_0&t=3392s](https://www.youtube.com/watch?v=YjhY6mVG2_0&t=3392s)
- **April 17-18, 2018:** participant in CCCR (Cambridge Conference on Catastrophic Risk) 2018. Organized by Centre for the Study of Existential Risk (CSER). Cambridge, UK.
- **February 14-17 2018:** presented at International Research Conference Robophilosophy 2018 / TRANSOR 2018. Vienna, Austria. [conferences.au.dk/robo-philosophy-2018-at-the-university-of-vienna/session-talks/lessons-from-nuclear-arms-control-for-the-responsible-governance-of-ai-development/](http://conferences.au.dk/robo-philosophy-2018-at-the-university-of-vienna/session-talks/lessons-from-nuclear-arms-control-for-the-responsible-governance-of-ai-development/)
- **January 31-February 3<sup>rd</sup> 2018:** presented at AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society 2018. New Orleans, USA. Paper available at [www.aies-conference.com/wp-content/papers/main/AIES\\_2018\\_paper\\_118.pdf](http://www.aies-conference.com/wp-content/papers/main/AIES_2018_paper_118.pdf)
- **September 2017:** attendee, University of Gothenburg – *Workshop on Existential Risk to Humanity*.
- **May 2017:** Presenter, Lorentz Center – Workshop Multilateral Governance of Technological Risk
- **December 2016:** Presenter, Cambridge Conference on Catastrophic Risk 2016 (CCCR 2016) *"Insights from Nuclear Weapons Policy for the Governance of Artificial Intelligence Development"*. Described by one organizer as *"[one of the best-received contributed talks](#)"*

### **Work Experience:**

**10 / 2016 – 08 / 2017** | **Analyst, NewForesight consultancy** (Utrecht, The Netherlands)

- Worked with diverse industry, civil society and government stakeholders on modelling of agricultural yields and supply chains, ensuring resilience, sustainability, and profitability for farmers.

**05 / 2015 – 10 / 2016** | **Freelance Analyst, The Hague Centre for Strategic Studies (HCSS)**

- Invited to contribute to major projects, e.g. (1) evaluation of urban security strategies; (2) scenario analysis of future trends & shocks in global food systems; (3) comparative sentiment analysis of national security & strategy foresight literatures; (4) report on non-kinetic military applications of AI systems.

**06 / 2015 – 12 / 2015** | **Trainee (Political and Security Affairs), The Netherlands Embassy in Beirut**

**12 / 2013 – 08 / 2014** | **Assistant Strategic Analyst, The Hague Centre for Strategic Studies (HCSS)**