Thomy Phan

Curriculum Vitae

Contact Information

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Website

thomyphan.github.io

Research Interests

Multi-Agent Systems, Reinforcement Learning, Optimization

Education

2018 - 2023

Ph.D. in Computer Science, LMU Munich, Germany

- Thesis: "Emergence and Resilience in Multi-Agent Reinforcement Learning"
 - Thesis committee: Claudia Linnhoff-Popien, Sven Koenig, Long Tran-Thanh
 - Based on work published at AAMAS, AAAI, IJCAI, NeurIPS, and ICML

2015 - 2017

M.Sc. in Computer Science, LMU Munich, Germany

- Focus on artificial intelligence, data science, and autonomous systems
- Master thesis: "EVADE: Emergent Value Function Approximation for Distributed Environments"
 - Supervision: Claudia Linnhoff-Popien, Lenz Belzner
 - Results published at AAMAS 2018 as a full conference paper

2011 - 2015

B.Sc. in Computer Science, *Munich University of Applied Sciences*, Germany

- Collaborative study program (duales Studium) with the City of Munich
- Focus on software development and image processing
- Bachelor thesis: "Quantification and Feature Extraction of 3D Single-Molecule Switching Microscopy Data"
 - Supervision: Alfred Nischwitz, Joerg Bewersdorf
 - Practical work done at Bewersdorf Lab, Yale University
 - Results published in Cell 2016 as a journal paper (cover story)

Research Experience

2025 – Present

Junior Professor, University of Bayreuth, Germany

- Heading the Chair of Artificial Intelligence and Machine Learning.

2023 - 2025

Postdoctoral Scholar, UC Irvine & USC, CA, USA

- Advisor: Sven Koenig
- Focus on combinatorial optimization via multi-agent learning and reasoning.

2018 - 2023

Research Assistant, LMU Munich, Germany

- Advisor: Claudia Linnhoff-Popien
- Focus on emergence and resilience in multi-agent systems.

2015

Visiting Scholar in Research (3 Months), Yale University, New Haven, CT, USA

- Advisor: Joerg Bewersdorf
- Focus on data analysis and feature extraction of cellular structures in super-resolution microscopy data. Co-authored publication in Cell 2016 (cover story).

Honors and Awards

2025 **KIT YIG Prep Pro Fellowship (Offered)**, Karlsruhe Institute of Technology (KIT), Germany

Funded postdoctoral position for the KIT Young Investigator Group Preparation Program.

Thomy Phan 1/8

- IJCAI Certificate of Appreciation, International Joint Conference on Artificial Intelligence (IJCAI), Montreal, Canada
 Recognition for serving as an emergency reviewer (see community activities below).
- 2024 **GI Dissertation Award Nomination 2023**, German Informatics Society (GI), Dagstuhl, Germany Nominated candidate of LMU Munich with an invited talk at Dagstuhl. My dissertation is listed in an honorary collection in the Lecture Notes in Informatics published at https://dl.gi.de/collections/8a89b931-32cf-4a39-97a9-dc0630d5ace3.
- 2024 Premier Paper of AAMAS 2024, Journal of the International Foundation for Autonomous Agents and Multi-Agent Systems (JAAMAS)

 Invitation to submit an extended version of our AAMAS 2024 paper "Confidence-Based Curriculum Learning for Multi-Agent Path Finding" (main author). Preprint at https://www.researchsquare.com/article/rs-5427877/v1
- 2024 CRA Travel Grant for the CCC Artificial Intelligence/Operations Research Workshop III, Computing Community Consortium (CCC), Washington, DC, USA Invitation and financial support from the Computing Research Association (CRA).
- 2024 ICAART 2024 Springer Selection, Lecture Notes in Artificial Intelligence Invitation to submit an extended version of our ICAART 2024 paper "Multi-Agent Quantum Reinforcement Learning using Evolutionary Optimization" (co-author). Published at https://link.springer.com/chapter/10.1007/978-3-031-87327-0_3
- Outstanding Reviewer (Top 10%), Conference on Neural Information Processing Systems (NeurIPS), New Orleans, LA, USA
 Listed at https://neurips.cc/Conferences/2023/ProgramCommittee
- Premier Paper of AAMAS 2022, Journal of the International Foundation for Autonomous Agents and Multi-Agent Systems (JAAMAS)
 Invitation to submit an extended version of our AAMAS 2022 paper "Emergent Cooperation from Mutual Acknowledgment Exchange" (main author). Published at https://link.springer.com/article/10.1007/s10458-024-09666-5
- 2022 **Highlight Paper at the Workshop on Ad Hoc Teamwork**, International Joint Conference on Artificial Intelligence (IJCAI), Vienna, Austria Recognition of our AAMAS 2022 paper "Emergent Cooperation from Mutual Acknowledgment Exchange" (main author) with an invited talk. More details at https://sites.google.com/view/ad-hoc-teamwork/waht-2022
- Outstanding Reviewer (Top 10%), International Conference on Machine Learning (ICML), Baltimore, MD, USA
 Listed at https://icml.cc/Conferences/2022/Reviewers
- 2021 ICAART 2021 Springer Selection, Lecture Notes in Artificial Intelligence Invitation to submit an extended version of our ICAART 2021 paper "SAT-MARL: Specification Aware Training in Multi-Agent Reinforcement Learning" (co-author). Published at https://link.springer.com/chapter/10.1007/978-3-031-10161-8_1
- 2019 **DAAD Travel Grant for AAMAS 2019**, *German Academic Exchange Service*, Montreal, Canada
- 2016 Best Bachelor Award, Rohde & Schwarz GmbH & Co. KG, Munich, Germany
- 2016 Award for an Outstanding Bachelor Thesis in the Field of Image Processing, Stemmer Imaging GmbH, Munich, Germany
- 2012 2017 **Scholarship**, *German Academic Scholarship Foundation*, Munich, Germany In Germany, the top 0.5% of university or high school students get selected for funding.

Research Projects

2024 – 2025 Causal Foundations of Decision-Making and Learning, National Science Foundation, Los Angeles, CA, USA
 Research on causal reinforcement learning and planning together with Columbia University.

Thomy Phan 2/8

- 2023 2025 Al4OPT Al Institute for Advances in Optimization, National Science Foundation, Los Angeles, CA, USA Research on combinatorial optimization via multi-agent learning and reasoning together with the Georgia Institute of Technology.
 - 2023 **Dependability of Machine Learning in Industrial Robotics**, *Siemens AG*, Munich, Germany
 - Research on robust machine learning in industrial robotics. Assisted acquisition.
- 2022 2024 Intelligent and Cognitive Systems, Bavarian Ministry of Economic Affairs, Regional Development, and Energy, Munich, Germany
 Research on emergence in multi-agent learning together with Fraunhofer IKS. Assisted acquisition.
 - Validation and Verification of Modular Machine Learning Systems, Siemens AG, Munich, Germany
 Research on modular machine learning. Assisted acquisition.
- 2020 2021 **Dependable MLOps in Industrial Environments**, *Siemens AG*, Munich, Germany Research on adaptive testing in MLOps systems. Assisted acquisition.
 - 2019 Dependability of Machine Learning in Industrial Environments, Siemens AG, Munich, Germany Research on resilience in multi-agent reinforcement learning.
 - 2018 Coevolution in Machine Learning Based Industrial Environments, Siemens AG, Munich, Germany
 Research on scenario coevolution in reinforcement learning.
- 2018 2023 InnoMI Innovation Center Mobile Internet, Bavarian Ministry of Economic Affairs, Regional Development, and Energy, Munich, Germany Research on innovative mobile and distributed systems.

Selected Publications

Conferences

Extended abstracts (≤ 3 pages) with a full conference or journal version are not listed.

- 2025 [C20] Anytime Multi-Agent Path Finding with an Adaptive Delay-Based Heuristic Thomy Phan, Benran Zhang, Shao-Hung Chan, and Sven Koenig.

 AAAI Conference on Artificial Intelligence (AAAI), pages 23286–23294, 2025. Oral Presentation (less than 5%, out of 12,957 papers).
 - [C19] Counterfactual Online Learning for Open-Loop Monte Carlo Planning
 Thomy Phan, Shao-Hung Chan, and Sven Koenig.

 AAAI Conference on Artificial Intelligence (AAAI), pages 26651–26658, 2025.
- 2024 [C18] Adaptive Anytime Multi-Agent Path Finding using Bandit-Based Large Neighborhood Search
 Thomy Phan, Taoan Huang, Bistra Dilkina, and Sven Koenig.
 AAAI Conference on Artificial Intelligence (AAAI), pages 17514–17522, 2024.
 - [C17] Confidence-Based Curriculum Learning for Multi-Agent Path Finding
 Thomy Phan, Joseph Driscoll, Justin Romberg, and Sven Koenig.
 International Conference on Autonomous Agents and Multiagent Systems (AAMAS),
 pages 1558–1566, 2024. Premier Paper of AAMAS 2024 with an invitation to the Journal
 on Autonomous Agents and Multi-Agent Systems (JAAMAS).
 - [C16] Multi-Agent Quantum Reinforcement Learning Using Evolutionary Optimization Michael Kölle, Felix Topp, Thomy Phan, Philipp Altmann, Jonas Nüßlein, Claudia Linnhoff-Popien. International Conference on Agents and Artificial Intelligence (ICAART), pages 71–82, 2024. ICAART 2024 — Springer Selection with an invitation to the Lecture Notes in Artificial Intelligence. Co-mentored bachelor student work.

Thomy Phan 3/8

- 2023 [C15] Attention-Based Recurrence for Multi-Agent Reinforcement Learning under Stochastic Partial Observability
 Thomy Phan, Fabian Ritz, Philipp Altmann, Maximilian Zorn, Jonas Nüßlein, Michael Kölle, Thomas Gabor, and Claudia Linnhoff-Popien.
 International Conference on Machine Learning (ICML), pages 27840–27853, 2023.
 - [C14] CROP: Towards Distributional-Shift Robust Reinforcement Learning using Compact Reshaped Observation Processing Philipp Altmann, Leonard Feuchtinger, Fabian Ritz, Jonas Nüßlein, Claudia Linnhoff-Popien, and <u>Thomy Phan</u>. International Joint Conference on Artificial Intelligence (IJCAI), pages 3414–3422, 2023.
- 2022 [C13] Emergent Cooperation from Mutual Acknowledgment Exchange

 Thomy Phan, Felix Sommer, Philipp Altmann, Fabian Ritz, Lenz Belzner, and Claudia Linnhoff-Popien.

 International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1047–1055, 2022. Highlight Paper at the IJCAI Workshop on Ad Hoc Teamwork 2022 and Premier Paper of AAMAS 2022 with an invitation to the Journal on Autonomous Agents and Multi-Agent Systems (JAAMAS).
 - [C12] Towards Anomaly Detection in Reinforcement Learning (Blue Sky Ideas) Robert Müller, Steffen Illium, <u>Thomy Phan</u>, Tom Haider, and Claudia Linnhoff-Popien. International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1799–1803, 2022.
- 2021 [C11] VAST: Value Function Factorization with Variable Agent Sub-Teams
 Thomy Phan, Fabian Ritz, Lenz Belzner, Philipp Altmann, Thomas Gabor, and Claudia Linnhoff-Popien.
 Advances in Neural Information Processing Systems (NeurIPS), pages 24018–24032, 2021.
 - [C10] Resilient Multi-Agent Reinforcement Learning with Adversarial Value Decomposition
 Thomy Phan, Lenz Belzner, Thomas Gabor, Andreas Sedlmeier, Fabian Ritz, and Claudia Linnhoff-Popien.
 AAAI Conference on Artificial Intelligence (AAAI), pages 11308–11316, 2021.
 - [C9] SAT-MARL: Specification Aware Training in Multi-Agent Reinforcement Learning Fabian Ritz, Thomy Phan, Robert Müller, Thomas Gabor, Andreas Sedlmeier, Marc Zeller, Jan Wieghardt, Reiner Schmid, Horst Sauer, Cornel Klein, and Claudia Linnhoff-Popien. International Conference on Agents and Artificial Intelligence (ICAART), pages 28—37, 2021. ICAART 2021 Springer Selection with an invitation to the Lecture Notes in Artificial Intelligence.
- 2020 [C8] Learning and Testing Resilience in Cooperative Multi-Agent Systems

 Thomy Phan, Thomas Gabor, Andreas Sedlmeier, Fabian Ritz, Bernhard Kempter, Cornel Klein, Horst Sauer, Reiner Schmid, Jan Wieghardt, Marc Zeller, and Claudia Linnhoff-Popien.

 International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1055–1063, 2020.
 - [C7] A Quantum Annealing Algorithm for Finding Pure Nash Equilibria in Graphical Games
 Christoph Roch, <u>Thomy Phan</u>, Sebastian Feld, Robert Müller, Thomas Gabor, Carsten Hahn, and Claudia Linnhoff-Popien.
 International Conference on Computational Science (ICCS), pages 488–501, 2020.
- 2019 [C6] Memory Bounded Open-Loop Planning in Large POMDPs using Thompson Sampling
 Thomy Phan, Lenz Belzner, Marie Kiermeier, Markus Friedrich, Kyrill Schmid, and Claudia Linnhoff-Popien.
 AAAI Conference on Artificial Intelligence (AAAI), pages 7941–7948, 2019.
 - [C5] Adaptive Thompson Sampling Stacks for Memory Bounded Open-Loop Planning Thomy Phan, Thomas Gabor, Robert Müller, Christoph Roch, and Claudia Linnhoff-Popien.

 International Joint Conference on Artificial Intelligence (IJCAI), pages 5607–5613, 2019.
 - [C4] Subgoal-Based Temporal Abstraction in Monte-Carlo Tree Search Thomas Gabor, Jan Peter, <u>Thomy Phan</u>, Christian Meyer, and Claudia Linnhoff-Popien. International Joint Conference on Artificial Intelligence (IJCAI), pages 5562–5568, 2019.

Thomy Phan 4/8

[C3] Distributed Policy Iteration for Scalable Approximation of Cooperative Multi-Agent Policies (Extended Abstract)

Thomy Phan, Kyrill Schmid, Lenz Belzner, Thomas Gabor, Sebastian Feld, and Claudia Linnhoff-Popien.

International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), pages 2162–2164, 2019.

[C2] Scenario Co-Evolution for Reinforcement Learning on a Grid World Smart Factory Domain

Thomas Gabor, Andreas Sedlmeier, Marie Kiermeier, <u>Thomy Phan</u>, Marcel Henrich, Monika Pichlmair, Bernhard Kempter, Cornel Klein, Horst Sauer, Reiner Schmid, and Jan Wieghardt.

Genetic and Evolutionary Computation Conference (GECCO), pages 898–906, 2019.

2018 [C1] Leveraging Statistical Multi-Agent Online Planning with Emergent Value Function Approximation

Thomy Phan, Lenz Belzner, Thomas Gabor, and Kyrill Schmid.

International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), pages 730–738, 2018.

Journals

2025 [J8] Generative Curricula for Multi-Agent Path Finding via Unsupervised and Reinforcement Learning

Thomy Phan, Timy Phan, and Sven Koenig.

Journal of Artificial Intelligence Research (JAIR). 82, pages 2471–2534, 2025.

[J7] Architectural Influence on Variational Quantum Circuits in Multi-Agent Reinforcement Learning: Evolutionary Strategies for Optimization

Michael Kölle, Karola Schneider, Sahrina Egger, Felix Topp, Thomy Phan, Philipp Alt

Michael Kölle, Karola Schneider, Sabrina Egger, Felix Topp, **Thomy Phan**, Philipp Altmann, Jonas Nüßlein, and Claudia Linnhoff-Popien.

Agents and Artificial Intelligence, pages 50-79, 2025. Invited from ICAART 2024.

2024 [J6] Emergent Cooperation from Mutual Acknowledgment Exchange in Multi-Agent Reinforcement Learning

Thomy Phan, Felix Sommer, Fabian Ritz, Philipp Altmann, Jonas Nüßlein, Michael Kölle, Lenz Belzner, and Claudia Linnhoff-Popien.

Autonomous Agents and Multi-Agent Systems (JAAMAS), 38(34), 2024. Invited from AAMAS 2022.

[J5] Discriminative Reward Co-Training

Philipp Altmann, Fabian Ritz, Maximilian Zorn, Michael Kölle, <u>Thomy Phan</u>, Thomas Gabor, and Claudia Linnhoff-Popien.

Neural Computing and Applications (NCAA), 2024.

2022 [J4] Specification Aware Multi-Agent Reinforcement Learning
Fabian Ritz, Thomy Phan, Robert Müller, Thomas Gabor, Andreas Sedlmeier, Marc Zeller,
Jan Wieghardt, Reiner Schmid, Horst Sauer, Cornel Klein, and Claudia Linnhoff-Popien.

Agents and Artificial Intelligence, pages 3–21, 2022. Invited from ICAART 2021.

2021 [J3] **Productive Fitness in Diversity-Aware Evolutionary Algorithms**Thomas Gabor, **Thomy Phan**, and Claudia Linnhoff-Popien.

Natural Computing, 20(3): 363–376, 2021.

2020 [J2] The Scenario Coevolution Paradigm: Adaptive Quality Assurance for Adaptive Systems

Thomas Gabor, Andreas Sedlmeier, **Thomy Phan**, Fabian Ritz, Marie Kiermeier, Lenz Belzner, Bernhard Kempter, Cornel Klein, Horst Sauer, Reiner Schmid, Jan Wieghardt, Marc Zeller, and Claudia Linnhoff-Popien.

International Journal on Software Tools for Technology Transfer (STTT), 22(4): 457–476, 2020.

2016 [J1] Ultra-High Resolution 3D Imaging of Whole Cells (Cover Story)

Fang Huang, George Sirinakis, Edward S Allgeyer, Lena K Schroeder, Whitney C Duim, Emil B Kromann, **Thomy Phan**, Felix E Rivera-Molina, Jordan R Myers, Irnov Irnov, Mark Lessard, Yongdeng Zhang, Mary Ann Handel, Christine Jacobs-Wagner, C Patrick Lusk, James E Rothman, Derek Toomre, Martin J Booth, and Joerg Bewersdorf. *Cell*, 166(4): 1028–1040, 2016. Cover Story.

Workshops

Workshop papers with a conference or journal version are not listed.

Thomy Phan 5/8

2020 [W2] The Holy Grail of Quantum Artificial Intelligence: Major Challenges in Accelerating the Machine Learning Pipeline Thomas Gabor, Leo Sünkel, Fabian Ritz, Thomy Phan, Lenz Belzner, Christoph Roch, Sebastian Feld, and Claudia Linnhoff-Popien. International Workshop on Quantum Software Engineering (Q-SE) at ICSE 2020, pages 456-461, 2020. [W1] A Distributed Policy Iteration Scheme for Cooperative Multi-Agent Policy Approximation Thomy Phan, Lenz Belzner, Kyrill Schmid, Thomas Gabor, Fabian Ritz, Sebastian Feld, and Claudia Linnhoff-Popien. Adaptive and Learning Agents Workshop (ALA) at AAMAS, 2020. Community Activities **Organizing Committee** 2019 International Symposium on Applied Artificial Intelligence (ISAAI). More details at https://digitaleweltmagazin.de/digicon-2019/symposium/ **Action Editor** 2024 - Present Transactions on Machine Learning Research (TMLR) Program Committee/Reviewer 2026 International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2024 - 2026International Conference on Learning Representations (ICLR) 2021 - 2026 AAAI Conference on Artificial Intelligence (AAAI) 2025 Journal of Artificial Intelligence Research (JAIR) 2022 - 2025Conference on Neural Information Processing Systems (NeurIPS) 2022 - 2025International Conference on Machine Learning (ICML) 2023 - 2025International Joint Conference on Artificial Intelligence (IJCAI) 2024 - 2025International Conference on Automated Planning and Scheduling (ICAPS) 2025 International Conference on Artificial Intelligence and Statistics (AISTATS) 2024 Journal on Autonomous Agents and Multi-Agent Systems (JAAMAS) 2024 Artificial Intelligence Journal (AIJ) PLOS ONE Journal 2021 **Talks** Invited Talks 09/2024 Towards Scalable Optimization via Multi-Agent Reinforcement Learning, Workshop on Quantum Algorithm Design Automation at IEEE QCE, Montreal, Canada (virtual) More details at https://sites.google.com/view/ieee-qada/schedule 06/2024 Towards Scalable Optimization via Multi-Agent Reinforcement Learning, Interactive Visualization and Intelligence Augmentation Lab (IVIA), ETH Zürich (virtual), Switzerland Invited talk at the IVIA-lab headed by Prof. Mennatallah El-Assady. 07/2022 Emergent Cooperation from Mutual Acknowledgment Exchange, Workshop on Ad Hoc Teamwork at IJCAI 2022 (virtual) Highlight presentation of our AAMAS 2022 paper "Emergent Cooperation from Mutual Acknowledgment Exchange" (main author). More details at https://sites.google.com/view/ad-hoc-teamwork/waht-2022

Thomy Phan 6/8

Stability in Al-Systems, Digitale Stadt München e.V., Germany (virtual)

at https://digitalestadtmuenchen.de/event/safe-intelligence/

DigiTalk event on Safe Intelligence of the Digital City Association of Munich. More details

06/2021

12/2020	"Künstliche Intelligenz: Wie lernen Roboter?", Gymnasium Berchtesgaden, Germany (virtual)
	P-seminar talk for high school students and the Junior Science Café. I received an invitation because of my successful talk at the Unitag event of LMU Munich in 2019 (see below).
03/2019	Building Autonomous Systems with AI , <i>University of Augsburg</i> , Germany AI workshop for students of the Software Engineering Elite Graduate Program in Bavaria.
	Presentations at Conferences as the Main Author
02/2025	Anytime Multi-Agent Path Finding with an Adaptive Delay-Based Heuristic, Philadelphia, PA, USA AAAI Conference on Artificial Intelligence (AAAI).
02/2024	Adaptive Anytime Multi-Agent Path Finding Using Bandit-Based Large Neighborhood Search, Vancouver, Canada AAAI Conference on Artificial Intelligence (AAAI).
07/2023	Attention-Based Recurrence for Multi-Agent Reinforcement Learning under Stochastic Partial Observability, Honolulu, Hawaii, USA International Conference on Machine Learning (ICML).
05/2022	Emergent Cooperation from Mutual Acknowledgment Exchange, virtual International Conference on Autonomous Agents and Multiagent Systems (AAMAS).
12/2021	VAST: Value Function Factorization with Variable Agent Sub-Teams, virtual Conference on Neural Information Processing Systems (NeurIPS).
02/2021	Resilient Multi-Agent Reinforcement Learning with Adversarial Value Decomposition, virtual AAAI Conference on Artificial Intelligence (AAAI).
05/2020	Learning and Testing Resilience in Cooperative Multi-Agent Systems, virtual International Conference on Autonomous Agents and Multiagent Systems (AAMAS).
08/2019	Adaptive Thompson Sampling Stacks for Memory Bounded Open-Loop Planning, Macao, China International Joint Conference on Artificial Intelligence (IJCAI).
05/2019	Distributed Policy Iteration for Scalable Approximation of Cooperative Multi- Agent Policies, Montreal, Canada International Conference on Autonomous Agents and Multiagent Systems (AAMAS).
02/2019	Memory Bounded Open-Loop Planning in Large POMDPs using Thompson Sampling, Honolulu, Hawaii, USA AAAI Conference on Artificial Intelligence (AAAI).
07/2018	Leveraging Statistical Multi-Agent Online Planning with Emergent Value Function Approximation, Stockholm, Sweden International Conference on Autonomous Agents and Multiagent Systems (AAMAS).
	Other Talks
2019	Unitag — "Künstliche Intelligenz: Wie lernen Roboter?", LMU Munich, Germany University event for gifted high school students from Upper Bavaria.

Teaching

University of Southern California, USA

1.0 unit corresponds to 1 presence hour per week.

Spring 2024 CSCI 599: Autonomous Decision-Making (4.0 Units) [Self-Developed]

- Lecture on reinforcement learning, planning, and multi-agent systems
- Main instructor Syllabus and registration count provided at https://classes.usc.edu/term-20241/course/csci-599/

Thomy Phan 7/8

Spring 2024 CSCI 499: Foundations of Multi-Agent Systems (Guest Lecture)

- Lecture on multi-agent algorithms and applications given by Prof. Sven Koenig
- Guest lecturer for two sessions on multi-agent reinforcement learning
- Syllabus and registration count provided at https://classes.usc.edu/term-20241/course/csci-499/

2023 - 2024 Student Mentoring (1.0 – 2.0 Units)

Topic overview at https://thomyphan.github.io/teaching/directed_research/

- 1 bachelor project with one publication at AAAI 2025 (+ Oral Presentation and AAAI Student Travel Grant)

LMU Munich, Germany

2019 – 2023 Autonomous Systems (6 ECTS) [Self-Developed]

- Practical course for 12 18 master students on planning and reinforcement learning
- Main instructor until summer semester 2022
- Syllabus and registration count for summer semester 2022 provided at https://uni2work.ifi.lmu.de/course/S22/IfI/ASP

2019 – 2023 Working Group "Artificial Intelligence" (No ECTS)

- Voluntary seminar for more than 100 students on current AI topics
- Main instructor
- Syllabus and registration count for summer semester 2022 provided at https://uni2work.ifi.lmu.de/course/S22/IfI/AIAG

Winter 2022 Computational Intelligence (Guest Lecture)

- Lecture on intelligent optimization algorithms given by Dr. Thomas Gabor
- Guest lecturer for one session on multi-agent optimization
- Syllabus and registration count provided at https://uni2work.ifi.lmu.de/course/W22/IfI/CoIn

2018 – 2019 Mobile and Distributed Systems (6 ECTS)

- Practical course for 12 18 master students on mobile app development and on-device machine learning
- Assisting instructor

2018 – 2023 **Student Mentoring (15 – 30 ECTS)**

Topic overview at https://thomyphan.github.io/teaching/student_theses/

- 1 PhD student with publications at IJCAI 2023 and NCAA 2024
- 26 master theses with publications at IJCAI 2019, AAMAS 2022 (+ Recognition as an AAMAS Premier Paper and a Highlight Paper at the IJCAI 2022 Workshop on Ad Hoc Teamwork), and JAAMAS 2024
- 24 bachelor theses with one student admitted to the Max Planck Research School for Intelligent Systems (IMPRS-IS) program for outstanding PhD students (supported by my recommendation letter)
- 8 individual research projects with one publication at GECCO 2019

Thomy Phan 8/8