Matthias Grabmair - Curriculum Vitae [2/2022]

CONTACT

Technical University of Munich, Department of Informatics Boltzmannstraße 3/I, 85748 Garching, Munich, Germany Email: matthias.grabmair@tum.de

POSITIONS

Assistant Professor of Legal Tech	Technical University of Munich Department of Informatics Munich, Germany	since 1/2021
Legal Data Scientist	SINC GmbH Wiesbaden, Germany	2019-2020
Systems Scientist	Carnegie Mellon University Language Technologies Institute Pittsburgh, PA, USA	2017-2019
Postdoctoral Associate	Carnegie Mellon University Language Technologies Institute Pittsburgh, PA, USA	2016-2017
EDUCATION		
PhD, Intelligent Systems	University of Pittsburgh Dietrich School of Arts & Sciences Intelligent Systems Program Pittsburgh, PA, USA	2007-2016
LLM, Master of Laws Magna cum laude honors	University of Pittsburgh School of Law Pittsburgh, PA, USA	2004-2005
Dipl-Jur (Univ) First State Exam in Law	University of Augsburg School of Law Augsburg, Germany	2001-2007

VISITING & ADJUNCT POSITIONS

Adjunct Professor	Carnegie Mellon University, LTI University of Pittsburgh, School of Law University of Heidelberg, School of Law	Spring 2019 12/2017
Visiting Researcher	Carnegie Mellon University, LTI	2015-2016
Visiting Professor	University of Pittsburgh, School of Law	Fall 2010

SELECTED FELLOWSHIPS & AWARDS

- Andrew Mellon Predoctoral Fellowship, 2012-2013, University of Pittsburgh
- Donald H. Berman Best Student Paper Award, ICAIL Conference 2011
- Summer Fellowship, Google Summer of Code Program 2008
- Undergraduate Fellowship, 2004-2007, Friedrich-Ebert-Foundation, Germany
- Study Abroad Scholarship, 2004, German Academic Exchange Service (DAAD)
- Tuition Scholarship, 2004-2005, Center for International Studies, University of Pittsburgh

INDUSTRY & GOVERNMENT COLLABORATION

- Application of Natural Language Processing and Question Answering Technologies for Airplane Maintenance Documents, 2016-2019
- Research on the development of a context-aware personal assistant, sponsored by Bosch Research Pittsburgh, 2016-2017
- Co-authored report on "Consumer Scoring: A Feasibility Study for an Algorithm Law" for the German Expert Council for Consumer Affairs, an advisory body of the Federal Ministry of Justice and Consumer Protection, Summer 2018

TEACHING & EDUCATION ACTIVITY

- *IN2395 Legal Data Science & Informatics* (6 ECTS), Department of Informatics, Technical University of Munich, Summer & Winter Semesters 2021
- Member of program leadership and admissions committee, Master of Computational Data Science (MCDS), School of Computer Science, Carnegie Mellon University, 2016-2019
- 11-631 Data Science Seminar, 11-634 Capstone Planning Seminar, 11-632 Capstone Project Course, Master's Program in Computational Data Science, Language Technologies Institute, Carnegie Mellon University, 2015-2019
- Applied Legal Analytics and AI, Language Technologies Institute, Carnegie Mellon University and University of Pittsburgh School of Law, Spring 2019
- AI&Law introduction course, University of Heidelberg School of Law, December 2017
- Half-Day conference tutorials on AI&Law co-presented with Kevin Ashley at JURIX 2011 and ICAIL 2013, 2015, 2017
- Public International Law Advocacy, University of Pittsburgh School of Law, Fall 2010
- Coach of the Jessup Moot Court Team, University of Pittsburgh School of Law, 2010-2011

RESEARCH COMMUNITY SERVICE

Program Chair: ICAIL 2023 (upcoming)

Organizing Committee Member: ASAIL 2015, 2017, 2019, 2020 Workshops on Automated Semantic Analysis of Information in Legal Texts, held in conjunction with ICAIL and JURIX; chair since 10/2019

Program Committee Memberships: IJCAI 2017 Special Track on AI&Autonomy; Int. Conf. on AI&Law (ICAIL), 2015-2019; JURIX Conf. on Legal Knowledge and Information Systems 2016, 2017; RuleML 2016; RuleML 2014 Special Track on Rules and Human Language Technology; RuleML 2013 Special Track on Translating between Human Language and Formal Rules: Business, Law, and Government; AI for Justice Workshop at ECAI 2016; ARG-MINING, Workshop on Argumentation Mining, 2015, 2017; LIT 2014 (6th Legal Informatics and Legal Information Technology Workshop); Workshop on "Semantic Processing of Legal Texts (SPLeT-2014)", Special Track on Legal Resources and Access to Law

Scientific Journal Activity:

- Section Editor for Machine Learning, Artificial Intelligence & Law Journal, Springer
- Guest Editor, Artificial Intelligence & Law Journal, Special Issue on "Natural Language Processing for Legal Texts", Summer 2018
- Reviewer: International Journal on Artificial Intelligence and Education, Journal on Argument & Computation

PUBLICATIONS

- 1. Z. Huang, C. Low, M. Teng, H. Zhang, D. E. Ho, M. S. Krass, **M. Grabmair**, Context-Aware Legal Citation Recommendation using Deep Learning, Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law (ICAIL 2021), 79-88, ACM, 2021.
- J. Savelka, H. Westermann, K. Benyekhlef, C. S. Alexander, J. C. Grant, D. Restrepo Amariles, R. El-Hamdani, S. Meeus, A. Troussel, M. Araszkiewicz, K. D. Ashley, A. Ashley, K. L. Branting, M. Falduti, M. Grabmair, J. Harasta, T. Novotna, E. Tippett and S. Johnson, Lex Rosetta: Transfer of Predictive Models Across Languages, Jurisdictions, and Legal Domains, Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law (ICAIL 2021), 129-138, ACM, 2021.
- 3. J. Savelka, **M. Grabmair**, K. Ashley, A Law School Course in Applied Legal Analytics and AI, Law in Context. A Socio-legal Journal 37, no. 1 (2020): 1-41.
- 4. A. Belova, **M. Grabmair**, E. Nyberg, Segmentation of Rulemaking Documents for Public Notice-and-Comment Process Analysis, Proceedings of the Workshop on Artificial Intelligence and the Administrative State (AIAS 2019), CEUR-WS.org, http://ceur-ws.org/Vol-2471/paper1.pdf, 2019.
- 5. L. Zhong, Z. Zhong, Z. Zhao, S. Wang, K. D. Ashley, and **M. Grabmair**, Automatic Summarization of Legal Decisions using Iterative Masking of Predictive Sentences, Proceedings of the Seventeenth International Conference on Artificial Intelligence and Law (ICAIL 2019), 163-172, ACM, 2019.
- 6. B. Karki, F. Hu, N. Haridas, S. Barot, Z. Liu, L. Callebert, **M. Grabmair**, and A. Tomasic, Question answering via web extracted tables, Proceedings of the Second International Workshop on Exploiting Artificial Intelligence Techniques for Data Management (aiDM 2019), Article 4, 8 pages, ACM, 2019.
- 7. M. Kale, A. Siddhant, S. Nag, R. Parik, **M. Grabmair**, A. Tomasic, Supervised Contextual Embeddings for Transfer Learning in Natural Language Processing Tasks, 2nd Learning from Limited Labeled Data (LLD) Workshop at ICLR 2019, 2019.
- 8. S. Wadhwa, V. Embar, **M. Grabmair**, E. Nyberg, Towards Inference-Oriented Reading Comprehension: ParallelQA, Workshop on New Forms of Generalization in Deep Learning and Natural Language Processing, NAACL 2018, arXiv:1805.03830, 2018.
- 9. J. Savelka, Vern R. Walker, **M. Grabmair** and K. D. Ashley, Sentence Boundary Detection in Adjudicatory Decisions in the United States, TAL 58.2, 2017.
- A. Ravichander, T. Manzini, M. Grabmair, G. Neubig, J. Francis and E. Nyberg, How Would You Say It? Eliciting Lexically Diverse Dialogue for Supervised Semantic Parsing, Proceedings SIGDIAL 2017, pp 374-383, ACL, 2017.
- 11. **M. Grabmair**, Predicting Trade Secret Case Outcomes using Argument Schemes and Learned Quantitative Value Effect Tradeoffs, ICAIL 2017 Proceedings, ACM, 2017.
- 12. A. Bansal, Z. Bu, B. Mishra, S. Wang, K. D. Ashley and **M. Grabmair**, Document Ranking with Citation Information and Oversampling Sentence Classification in the LUIMA Framework, Proceedings of the 2016 International Conference on Legal Knowledge and Information Systems (JURIX 2016), pp 33-42, IOS Press, 2016.
- 13. **M. Grabmair**, Modeling Purposive Legal Argumentation and Case Outcome Prediction using Argument Schemes in the Value Judgment Formalism. Doctoral Dissertation, University of Pittsburgh, 2016.
- 14. **M. Grabmair**, K. D. Ashley, R. Chen, P. Sureshkumar, C. Wang, E. Nyberg and V. R. Walker, Introducing LUIMA: An Experiment in Legal Conceptual Retrieval of Vaccine Injury Decisions using a UIMA Type System and Tools, ICAIL 2015 Proceedings, 69-78, ACM, 2015.
- 15. J. Savelka, **M. Grabmair**, K.D. Ashley, Mining Information from Statutory Texts in Multi-jurisdictional Settings. In Rinke Hoekstra. Legal Knowledge and Information Systems (JURIX 2014). Amster-dam: IOS Press, pp. 133-142, 2014.
- 16. P. M. Sweeney, E. F. Bjerke, M. A. Potter, H. Güçlu, C. R. Keane, K. D. Ashley, **M. Grabmair**, R. Hwa, Network Analysis of Manually-Encoded State Laws and Prospects for Automation. In Winkels,

- R.; Lettieri, N.; Faro, S. (Eds.). Network Analysis in Law. Collana: Diritto Scienza Tecnologia/Law Science Technology Temi, 3, Napoli: Edizioni Scientifiche Italiane, 2014.
- 17. **M. Grabmair** & K.D. Ashley, Using Event Progression to Enhance Purposive Argumentation in the Value Judgment Formalism, ICAIL 2013 Proceedings, 73-82, ACM, 2013.
- 18. **M. Grabmair** & K.D. Ashley, A Survey of Uncertainties and their Consequences in Probabilistic Legal Argumentation, in: Bayesian Argumentation The Practical Side of Probability (Frank Zenker ed.), S. 61-85, Springer, 2012.
- 19. **M. Grabmair**, K.D. Ashley, R. Hwa and P.M. Sweeney, Toward Extracting Information from Public Health Statutes using Text Classification and Machine Learning, Jurix 2011: The 24th Annual Conference, pp. 73-82 (Katie M. Atkinson ed.) IOS Press, 2011.
- 20. M. Grabmair & K.D. Ashley, Facilitating Case Comparison Using Value Judgments and Intermediate Legal Concepts, ICAIL 2011 Proceedings, 161-170, ACM, 2011. [Donald H. Berman Best Student Paper Award]
- 21. **M. Grabmair** & K.D. Ashley, Argumentation with Value Judgments An Example of Hypothetical Reasoning, Jurix 2010: The 23rd Annual Conference, 67-76 (R.G.F. Winkels ed.), IOS Press, 2010.
- 22. **M. Grabmair**, T.F. Gordon, and D. Walton, Probabilistic Semantics for the Carneades Argument Model Using Bayesian Networks, Proceedings of the Third International Conference on Computational Models of Argument (COMMA), 255-266, IOS Press, 2010.
- 23. **M. Grabmair** & K.D. Ashley, Using Critical Questions to Disambiguate and Formalize Statutory Provisions, ICAIL 2009 Proceedings, 240-241, ACM SIGART, 2009.
- 24. **M. Grabmair** & K.D. Ashley, Towards Modeling Systematic Interpretation of Codified Law, Jurix 2005: The Eighteenth Annual Conference, 107-108 (M.-F. Moens, P. Spyns ed.), IOS Press, 2005.

SELECTED TALKS

- Panelist on "AI and Legal Practice", Invited workshop on AI at the Frontiers of International Law concerning Armed Conflict, Harvard Law School, Boston, MA, USA, December 2018.
- Fairness in Machine-Learning-Based Decision Making under Non-Discrimination Imperatives, Dagstuhl Seminar 18171 on Normative Multi-Agent Systems (NORMAS 2018), Schloss Dagstuhl, Germany
- Panelist, ICAIL 2013 Workshop on Argumentation in Artificial Intelligence and Law (chaired by Trevor Bench-Capon), Rome, Italy.
- How argument schemes and structures can be used for effective international law moot court preparation, University of Pittsburgh School of Law, Pittsburgh, PA, USA, October 2012.
- A Formalization of the Right to Life (R2L) and the Responsibility to Protect (R2P), Introductory remarks for roundtable discussion, JURIX 2011, Vienna, Austria.
- Assessing Argument Moves in the Carneades Argument Model Using Bayesian Networks, Workshop on Bayesian Argumentation 2010, Lund University, Sweden.