

Curriculum Vitae

Personal

Name **Florian Brandl**
Birth October 15, 1988, Viechtach, Germany
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Technical University of Munich
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Education

10/2013– Doctoral degree in Mathematics, Technical University of Munich,
Advisor: Prof. Felix Brandt
10/2011–09/2013 Master’s degree in Mathematics, Technical University of Munich
10/2008–09/2011 Bachelor’s degree in Mathematics, Technical University of Munich

Research Visits

08/2016–10/2016 Visiting assistant in research, Department of Economics, Yale Uni-
versity, Advisor: Prof. Dirk Bergemann
09/2016 Short term scientific mission, Department of Computer Science, Carnegie
Mellon University, Advisor: Prof. Ariel Procaccia

Presented Talks

05/2017 “Arrovian Aggregation of Convex Preferences and Pairwise Utilitar-
ianism”, Workshop on Decision: Theory, Experiments and Applica-
tions (D-TEA 2017)
09/2016 “Consistent Probabilistic Social Choice”, Microeconomic Theory Break-
fast, Department of Economics, Yale University
07/2016 “The Distribution of Optimal Strategies in Symmetric Zero-sum Games”,
5th World Congress of the Game Theory Society (GAMES 2016)
07/2016 “Proving the Incompatibility of Efficiency and Strategyproofness via
SMT Solving”, 25th International Joint Conference on Artificial In-
telligence (IJCAI 2016)

- 06/2016 “Proving the Incompatibility of Efficiency and Strategyproofness via SMT Solving”, 6th International Workshop on Computational Social Choice (COMSOSC 2016)
- 06/2014 “Universal Pareto Dominance and Welfare for Plausible Utility Functions”, 12th Meeting of the Society for Social Choice and Welfare (SCW 2014)
- 06/2014 “Universal Pareto Dominance and Welfare for Plausible Utility Functions”, 15th ACM Conference on Economics and Computation (EC 2014)
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Journal Articles

The distribution of optimal strategies in symmetric zero-sum games. *Games and Economic Behavior*, 104:674–680, 2017.

Proving the incompatibility of efficiency and strategyproofness via SMT solving. *Journal of the ACM*, 2017, with F. Brandt, M. Eberl, and C. Geist. Forthcoming.

Consistent probabilistic social choice. *Econometrica*, 84(5):1839–1880, 2016, with F. Brandt and H. G. Seedig.

The impossibility of extending random dictatorship to weak preferences. *Economics Letters*, 141:44–47, 2016, with F. Brandt and W. Suksompong.

Universal Pareto dominance and welfare for plausible utility functions. *Journal of Mathematical Economics*, 60:123–133, 2015, with H. Aziz and F. Brandt.

Conference Articles

Random assignment with optional participation. In *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, pages 326–334. IFAAMAS, 2017, with F. Brandt and J. Hofbauer. **Acceptance rate: 26%**

Proving the incompatibility of efficiency and strategyproofness via SMT solving. In *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI)*, pages 116–122. AAAI Press, 2016, with F. Brandt and C. Geist. **Acceptance rate: 24%**

Strategic abstention based on preference extensions: Positive results and computer-generated impossibilities. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI)*,

pages 18–24. AAAI Press, 2015, with F. Brandt, C. Geist, and J. Hofbauer. **Acceptance rate: 28%**

Incentives for participation and abstention in probabilistic social choice. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, pages 1411–1419. IFAAMAS, 2015, with F. Brandt and J. Hofbauer. **Acceptance rate: 25%**

Fractional hedonic games: Individual and group stability. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, pages 1219–1227. IFAAMAS, 2015, with F. Brandt and M. Strobel. **Acceptance rate: 25%**

On the incompatibility of efficiency and strategyproofness in randomized social choice. In *Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI)*, pages 545–551. AAAI Press, 2014, with H. Aziz and F. Brandt. **Acceptance rate: 28%**

Universal Pareto dominance and welfare for plausible utility functions. In *Proceedings of the 15th ACM Conference on Economics and Computation (ACM-EC)*, pages 331–332. ACM Press, 2014, with H. Aziz and F. Brandt. **Acceptance rate: 27%**

Existence of stability in hedonic coalition formation games. In *Proceedings of the 11th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, pages 763–770. IFAAMAS, 2012, with H. Aziz. **Acceptance rate: 20%**

Working Papers

Fractional hedonic games. 2017, with H. Aziz, F. Brandt, P. Harrenstein, M. Olsen, and D. Peters. Working paper.

Arrovian aggregation of convex preferences and pairwise utilitarianism. 2017, with F. Brandt. Working paper.

An axiomatic characterization of the Borda mean rule. 2017, with D. Peters. Working paper.

On the tradeoff between efficiency and strategyproofness. 2016, with H. Aziz, F. Brandt, and M. Brill. Working paper.

Welfare maximization entices participation. 2016, with F. Brandt and J. Hofbauer. Working paper.

Popular matchings with multiple partners. 2016, with T. Kavitha. Working paper.

Thesis

Efficiency and Incentives in Randomized Social Choice. Master's thesis, Technische Universität München, 2013.

Existence of Stability in Hedonic Coalition Formation Games. Bachelor's thesis, Technische Universität München, 2011.

Program Committee Memberships

25th International Joint Conference on Artificial Intelligence (IJCAI 2016), 26th International Joint Conference on Artificial Intelligence (IJCAI 2017)

Referring Journals

ACM Transactions on Economics and Computation (TEAC), Econometrica (ECMA), Games and Economic Behaviour (GEB), International Journal of Game Theory (IJGT), Journal of Economic Theory (JET), Social Choice and Welfare (SCW), Theoretical Economics (TE)

Referring Conferences

26th International Joint Conference on Artificial Intelligence (IJCAI 2017), 25th International Joint Conference on Artificial Intelligence (IJCAI 2016), 15th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016), 4th International Conference on Algorithmic Decision Theory (ADT 2015), 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015), 6th International Workshop on Computational Social Choice (COMSOSC 2016), 6th Workshop on Cooperative Games in Multiagent Systems (COOPMAS 2015), 15th ACM Conference on Economics and Computation (EC 2014)

Teaching

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| 2017– | Seminar “Markets, Algorithms, Incentives, and Networks” (Teaching assistant) |
| 2016– | Course “Algorithmic Game Theory” (Teaching assistant) |
| 2015– | Seminar “Computational Social Choice” (Teaching assistant) |
| 2014– | Seminar “Economics and Computation” (Teaching assistant) |

2013– Course “Computational Social Choice” (Teaching assistant)

Student Projects

- 11/2016–04/2017 Stefan Tilly, An Axiomatic Study of Parameterized Maximal Lottery Schemes, Master’s thesis
- 04/2016–12/2016 Maximilian Weininger, Acceptability of Social Choice Lotteries, Interdisciplinary project
- 10/2015–04/2017 Christian Stricker, An Asymptotic Study of the Axiomatic Properties of Social Decision Schemes, Master’s thesis
- 01/2015–12/2015 Robert Havemann, Farsighted Stability Notions in Coalition Formation Games, Master’s thesis
- 04/2014–09/2014 Martin Strobel, Fractional Hedonic Games - Individual and Group Stability Notions, Bachelor’s thesis
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Garching, September 11, 2017