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# Florian Brandl

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## Contact

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## Positions

- 2021– **Argelander Professor**, Department of Economics, University of Bonn
- 2021– **Bonn Junior Fellow**, Hausdorff Center for Mathematics, University of Bonn
- 2020–2021 **Postdoctoral research scholar**  
Department of Economics, Princeton University
- 2019–2020 **Visiting postdoctoral scholar**  
Department of Economics, Stanford University
- 2013–2018 **Graduate student**  
Department of Mathematics, Technical University of Munich

## Education

- 2018 **Doctoral degree in Mathematics** (*summa cum laude*)  
Department of Mathematics, Technical University of Munich  
Thesis title: *Zero-Sum Games in Social Choice and Game Theory*  
Thesis committee: Prof. Felix Brandt, Prof. Hervé Moulin, Prof. Clemens Puppe
- 2013 **Master's degree in Mathematics**  
Department of Mathematics, Technical University of Munich  
Thesis title: *Efficiency and Incentives in Randomized Social Choice*
- 2011 **Bachelor's degree in Mathematics** Department of Mathematics, Technical University of Munich  
Thesis title: *Existence of Stability in Hedonic Coalition Formation Games*

## Grants

- 2019–2021 **DFG Research Fellowship**

## Short-Term Research Visits

- 2018 Department of Computer Science, University of Oxford (Host: Edith Elkind)
- 2016 Department of Computer Science, Carnegie Mellon University (Host: Ariel Procaccia)

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**Journal Articles**

14. An analytical and experimental comparison of maximal lottery schemes. *Social Choice and Welfare*, 2021 (with F. Brandt and C. Stricker).
13. Arrovian aggregation of convex preferences. *Econometrica*, 88(2):799–844, 2020 (with F. Brandt).
12. Fractional hedonic games. *ACM Transactions on Economics and Computation*, 7(2):1–29, 2019 (with H. Aziz, F. Brandt, P. Harrenstein, M. Olsen, and D. Peters).
11. Justifying optimal play via consistency. *Theoretical Economics*, 14:1185–1201, 2019 (with F. Brandt).
10. Strategic abstention based on preference extensions: Positive results and computer-generated impossibilities. *Journal of Artificial Intelligence Research*, 66:1031–1056, 2019 (with F. Brandt, C. Geist, and J. Hofbauer).
9. Welfare maximization entices participation. *Games and Economic Behavior*, 14:308–314, 2019 (with F. Brandt and J. Hofbauer).
8. An axiomatic characterization of the Borda mean rule. *Social Choice and Welfare*, 52(4):685–707, 2019 (with D. Peters).
7. On the tradeoff between efficiency and strategyproofness. *Games and Economic Behavior*, 110:1–18, 2018 (with H. Aziz, F. Brandt, and M. Brill).
6. Proving the incompatibility of efficiency and strategyproofness via SMT solving. *Journal of the ACM*, 65(2):1–28, 2018 (with F. Brandt, M. Eberl, and C. Geist).
5. Two problems in max-size popular matchings. *Algorithmica*, 81(7):2738–2764, 2018 (with T. Kavitha).
4. The distribution of optimal strategies in symmetric zero-sum games. *Games and Economic Behavior*, 104:674–680, 2017.
3. Consistent probabilistic social choice. *Econometrica*, 84(5):1839–1880, 2016 (with F. Brandt and H. G. Seedig).
2. The impossibility of extending random dictatorship to weak preferences. *Economics Letters*, 141:44–47, 2016 (with F. Brandt and W. Suksompong).
1. Universal Pareto dominance and welfare for plausible utility functions. *Journal of Mathematical Economics*, 60:123–133, 2015 (with H. Aziz and F. Brandt).

**Publications in Peer-Reviewed Conference Proceedings**

12. Efficient, fair, and incentive-compatible healthcare rationing. In *Proceedings of the 22nd ACM Conference on Economics and Computation (ACM-EC)*, 2021 (with H. Aziz).

11. Distribution rules under dichotomous preferences: Two out of three ain't bad. In *Proceedings of the 22nd ACM Conference on Economics and Computation (ACM-EC)*, 2021 (with F. Brandt, D. Peters, and C. Stricker).
10. An analytical and experimental comparison of maximal lottery schemes. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI)*, 114–120, 2018 (with F. Brandt and C. Stricker).
9. Popular matchings with multiple partners. In *Proceedings of the 37th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS)*, Leibniz International Proceedings in Informatics (LIPIcs), 19:1–19:15. LZI, 2018 (with T. Kavitha).
8. Random assignment with optional participation. In *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 326–334, 2017 (with F. Brandt and J. Hofbauer).
7. Proving the incompatibility of efficiency and strategyproofness via SMT solving. In *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI)*, 116–122, 2016 (with F. Brandt and C. Geist).
6. Strategic abstention based on preference extensions: Positive results and computer-generated impossibilities. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI)*, 18–24, 2015 (with F. Brandt, C. Geist, and J. Hofbauer).
5. Incentives for participation and abstention in probabilistic social choice. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 1411–1419, 2015 (with F. Brandt and J. Hofbauer).
4. Fractional hedonic games: Individual and group stability. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 1219–1227, 2015 (with F. Brandt and M. Strobel).
3. On the incompatibility of efficiency and strategyproofness in randomized social choice. In *Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI)*, 545–551, 2014 (with H. Aziz and F. Brandt).
2. Universal Pareto dominance and welfare for plausible utility functions. In *Proceedings of the 15th ACM Conference on Economics and Computation (ACM-EC)*, 331–332, 2014 (with H. Aziz and F. Brandt).
1. Existence of stability in hedonic coalition formation games. In *Proceedings of the 11th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 763–770, 2012 (with H. Aziz).

## Working Papers

5. A natural adaptive process for collective decision-making. 2021 (with F. Brandt).
4. The vigilant eating rule: A general approach for probabilistic economic design with constraints. 2020 (with H. Aziz).
3. Belief-averaging and relative utilitarianism: Savage meets Arrow. 2020.

2. Funding public projects: A case for the Nash product rule. 2020 (with F. Brandt, D. Peters, C. Stricker, and W. Suksompong).
1. Simple characterizations of approval voting. 2019 (with D. Peters).

### **Seminar Talks**

2021	SET: Seminars in Economic Theory, Virtual Conference on Social Choice Theory and Applications
2020	California Institute of Technology, Princeton University, Cornell University
2019	Stanford University

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### **Referring Journals**

ACM Transactions on Economics and Computation (TEAC), Algorithmica (ALGO), Econometrica (ECMA), Games and Economic Behavior (GEB), International Journal of Game Theory (IJGT), Journal of Artificial Intelligence Research (JAIR), Journal of Economic Theory (JET), Mathematical Social Sciences (MSS), Mathematics of Operations Research (MOR), Operations Research (OR), Social Choice and Welfare (SCW), Theoretical Economics (TE), Theory and Decision (THEO)

### **Program Committee Memberships**

21st ACM Conference on Economics and Computation (ACM-EC), 2020, 27th International Joint Conference on Artificial Intelligence (IJCAI), 2018, 26th International Joint Conference on Artificial Intelligence (IJCAI), 2017, 25th International Joint Conference on Artificial Intelligence (IJCAI), 2016

### **Referring Conferences**

27th International Joint Conference on Artificial Intelligence (IJCAI), 2018, 11th International Symposium on Algorithmic Game Theory (SAGT), 2018, 26th International Joint Conference on Artificial Intelligence (IJCAI), 2017, 15th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2016, 6th International Workshop on Computational Social Choice (COMSOSC), 2016, 25th International Joint Conference on Artificial Intelligence (IJCAI), 2016, 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2015, 4th International Conference on Algorithmic Decision Theory (ADT), 2015, 6th Workshop on Cooperative Games in Multiagent Systems (COOPMAS), 2015, 15th ACM Conference on Economics and Computation (ACM-EC), 2014

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### **Teaching**

2017–2018	Seminar “Markets, Algorithms, Incentives, and Networks”
2016	Course “Algorithmic Game Theory” (Teaching assistant)

- 2015 Seminar "Computational Social Choice"
- 2014–2018 Seminar "Economics and Computation"
- 2013–2019 Course "Computational Social Choice" (Teaching assistant)
- 2014–2019 Supervision of 7 Bachelor and Master theses