

Shinsuke Suzuki, Ph.D.

Shinsuke Suzuki

Associate Professor

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Education

2008 Ph.D. in Economics, University of Tsukuba, Tsukuba, Japan.

2005 M.A. in Policy and Planning Sciences, University of Tsukuba, Tsukuba, Japan.

2003 B.A. in Policy and Planning Sciences, University of Tsukuba, Tsukuba, Japan.

Professional position

2019.6 – Present:

Associate Professor, Brain, Mind and Markets Laboratory, Department of Finance, Faculty of Business and Economics, The University of Melbourne, Australia

2016.4 – 2019.5:

Assistant Professor, Frontier Research Institute for Interdisciplinary Sciences, Tohoku University.

2017.12 – 2018.2:

Academic Guest, Department of Economics, University of Zurich.

2014.4 – 2016.3:

Postdoctoral fellow for research abroad of the Japan Society for the Promotion of Science.

2012.10 – 2016.3:

Postdoctoral Scholar in Neuroscience, Division of the Humanities and Social Sciences, California Institute of Technology.

2011.4 – 2014.3:

Postdoctoral fellow of the Japan Society for the Promotion of Science.

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2011.4 – Present:

Visiting Scientist, Laboratory for Integrated Theoretical Neuroscience, RIKEN Brain Science Institute.

2011.4 – 2014.3:

Visiting Scientist, Graduate School of Letters, Hokkaido University.

2008.4 – 2011.3:

Research Scientist, Laboratory for Integrated Theoretical Neuroscience, RIKEN Brain Science Institute.

2006.4 – 2007.3:

Research Fellow of the Japan Society for the Promotion of Science.

Honors and Awards:

2017.4: Young Scientist Award from Ministry of Education, Culture, Sports, Science and Technology, Japan

2008.3: University of Tsukuba, President Award.

2003.3: Graduate School of Systems and Information engineering, University of Tsukuba, Provost Award.

Funding:

Research Grant

2017.4 – 2019.3

JSPS Challenging Research (Exploratory). Role, PI. Amount, 6,500,000JPY (= 59,000USD).

2017.4 – 2019.3

JSPS Grant-in-Aid for Scientific Research on Innovative Areas (Research in a proposed research area). Role, PI. Amount, 7,020,000JPY (= 64,000USD).

2017.4 – 2019.3

JSPS Grant-in-Aid for Scientific Research on Innovative Areas (Research in a proposed research area). Role, PI. Amount, 9,750,000JPY (= 89,000USD).

2016.10 – 2017.3

JSPS Grant-in-Aid for Research Activity start-up. Role, PI. Amount, 1,170,000JPY (=

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11,000USD).

2016.4 – 2018.3

Career Development Project for Researchers of Allied Universities, Program for Developing Next-generation Researchers. Role, PI. Amount, 10,000,000JPY (= 91,000USD).

2014.4 – 2015.3

SUNTORY FOUNDATION Grant-in-Aid for Young Scientists. Role, PI. Amount, 700,000JPY (= 6,000USD).

2011.4 – 2014.3:

Grant-in-Aid for JSPS Research Fellow. Role, PI. Amount, 2,400,000JPY (= 22,000USD).

2006.4 – 2008.3:

Grant-in-Aid for JSPS Research Fellow. Role, PI. Amount, 1,900,000JPY (= 17,000USD).

Fellowship

2014.4 – 2016.3:

Postdoctoral fellow for research abroad of the Japan Society for the Promotion of Science. Amount, 10,400,000JPY (= 95,000USD).

2011.4 – 2014.3:

Postdoctoral fellow of the Japan Society for the Promotion of Science. Amount, 13,032,000JPY (= 118,000USD).

2006.4 – 2007.3:

Research Fellow of the Japan Society for the Promotion of Science. Amount, 4,800,000JPY (= 44,000USD).

Publications:

Refereed journal articles

[*Neuroscience and Psychology*]

1. Haruaki Fukuda, Ning Ma, **Shinsuke Suzuki**, Norihiro Harasawa, Kenichi Ueno, Justin L Gardner, Noritaka Ichinohe, Masahiko Haruno, Kang Cheng, Hiroyuki Nakahara*, "Computing Social Value Conversion in the Human Brain", ***Journal of Neuroscience***, in press.
2. Andrea M. F. Reiter*, **Shinsuke Suzuki**, John P. O'Doherty, Shu-Chen Li, Ben Eppinger, "Risk contagion by peers affects learning and decision-making in adolescents", ***Journal of Experimental Psychology: General***, in press.
3. Peter Bossaerts*, **Shinsuke Suzuki**, John P. O'Doherty, "Perception of Intentionality in Investor Attitudes Towards Financial Risks", ***Journal of Behavioral and Experimental Finance***, in press.
4. **Shinsuke Suzuki***, Logan Cross, John P. O'Doherty, "Elucidating the underlying components of food valuation in the human orbitofrontal cortex", ***Nature Neuroscience***, Vol. 20, pp. 1780-1786, 2017.
5. Christopher A. Hill*, **Shinsuke Suzuki**, Rafael Polania, Marius Moisa, John P. O'Doherty, Christian C. Ruff, "A causal account of the brain network computations underlying strategic social behavior", ***Nature Neuroscience***, Vol. 20, pp. 1142-1149, 2017.
6. **Shinsuke Suzuki***, Emily L. S. Jensen, Peter Bossaerts, John P. O'Doherty, "Behavioral contagion during learning about another agent's risk-preferences acts on the neural representation of decision risk", ***Proceedings of the National Academy of Sciences of the United States of America (PNAS)***, Vol. 113, pp. 3755-3760, 2016.
7. **Shinsuke Suzuki***, Ryo Adachi, Simon Dunne, Peter Bossaerts, John P. O'Doherty, "Neural mechanisms underlying human consensus decision-making", ***Neuron***, Vol. 86, pp. 591-602, 2015.
8. Hideyuki Takahashi*, Kazunori Terada, Tomoyo Morita, **Shinsuke Suzuki**, Tomoki Haji, Hideki Kojima, Masahiro Yoshikawa, Yoshio Matsumoto, Takashi Omori, Minoru Asada, Eiichi Naito*, "Different impressions of other agents

obtained through social interaction uniquely modulate dorsal and ventral pathway activities in the social human brain", *Cortex*, Vol. 58, pp. 289-300, 2014.

9. **Shinsuke Suzuki**, Norihiro Harasawa, Kenichi Ueno, Justin L Gardner, Noritaka Ichinohe, Masahiko Haruno, Kang Cheng, Hiroyuki Nakahara*, "Learning to simulate other's decisions", *Neuron*, Vol. 74, No. 6, pp. 1125-1137, 2012.
10. **Shinsuke Suzuki***, Kazuhisa Niki, Syoken Fujisaki and Eizo Akiyama, "Neural basis of conditional cooperation", *Social Cognitive and Affective Neuroscience*, Vol. 6, No. 3, pp. 338-347, 2011.

[Theoretical Biology]

11. Genki Ichinose*, Masaya Saito, **Shinsuke Suzuki**, "Collective Chasing Behavior between Cooperators and Defectors in the Spatial Prisoner's Dilemma", *PLoS ONE* 8(7): e67702, 2013.
12. **Shinsuke Suzuki*** and Hiromichi Kimura, "Indirect reciprocity is sensitive to costs of information transfer", *Scientific Reports*, Vol. 3, No. 1435, 2013.
13. **Shinsuke Suzuki*** and Hiromichi Kimura, "Oscillatory dynamics in the coevolution of cooperation and mobility", *Journal of Theoretical Biology*, Vol. 287, No. 1, pp. 42-47, 2011.
14. **Shinsuke Suzuki*** and Eizo Akiyama, "Chaos, oscillation and the evolution of indirect reciprocity in n-person games", *Journal of Theoretical Biology*, Vol. 252, No. 4, pp. 686-693, 2008.
15. **Shinsuke Suzuki*** and Eizo Akiyama, "Evolutionary stability of first-order-information indirect reciprocity in sizable groups", *Theoretical Population Biology*, Vol. 73, No. 3, pp. 426-436, 2008.
16. **Shinsuke Suzuki*** and Eizo Akiyama, "Three-person game facilitates indirect reciprocity under image scoring", *Journal of Theoretical Biology*, Vol. 249, No. 1, pp. 93-100, 2007.
17. **Shinsuke Suzuki*** and Eizo Akiyama, "Evolution of compassion under un-repeated interaction", *Advancing Social Simulation* (eds. Takahashi, S., Sallach, D. and Rouchier, J.), pp. 273-282. Springer, 2007.

18. **Shinsuke Suzuki*** and Eizo Akiyama, "Evolution of indirect reciprocity in groups of various sizes and comparison with direct reciprocity", *Journal of Theoretical Biology*, Vol. 245, No. 3, pp. 539-552, 2007.
19. **Shinsuke Suzuki*** and Eizo Akiyama, "Evolution of indirect reciprocity in sizable groups: the effect of standing reputation criterion", *IPSJ (Information Processing Society of Japan) Journal*, Vol. 47, No. 5, pp. 1463-1472, 2006 (in Japanese).
20. **Shinsuke Suzuki*** and Eizo Akiyama, "Reputation and the Evolution of Cooperation in Sizable Groups", *Proceedings of the Royal Society B: Biological Sciences*, Vol. 272, No. 1570, pp. 1373-1377, 2005.

Invited journal articles

21. Hiroyuki Nakahara* and **Shinsuke Suzuki**, "Social decision-making and theoretical neuroscience: prospects for human sciences and computational psychiatry", *Brain and nerve (Shinkei kenkyu no shinpo)*, Vol. 65, pp. 973-982, 2013 (in Japanese).

Refereed conference proceedings

22. Genki Ichinose, Masaya Saito and **Shinsuke Suzuki**, "Evolutionary chasing between cooperators and defectors on the spatial prisoner's dilemma", *Proceedings of Artificial Life 13*, pp. 557-558, 2012.
23. **Shinsuke Suzuki**, Norihiro Harasawa, Kenichi Ueno, Sivaramakrishnan Kaveri, Justin L Gardner, Noritaka Ichinohe, Masahiko Haruno, Kang Cheng, Hiroyuki Nakahara, "Does one simulate the other's value-based decision making by using the neural systems for his own?", *Computational and Systems Neuroscience 2010*.
24. **Shinsuke Suzuki** and Eizo Akiyama, "Evolution of compassion under un-repeated interaction", the Proceedings of the First World Congress on Social Simulation (WCSS2006), Vol. 2 pp. 65-72, 2006.
25. **Shinsuke Suzuki** and Eizo Akiyama, "Evolution of the Reputation-based Reciprocity in Sizable Groups", *Proceedings of the 1-st International Workshop on Agent Network Dynamics and Intelligence*, pp. 111-117, 2005.

26. **Shinsuke Suzuki** and Eizo Akiyama, "Reputation and the Evolution of Cooperation in Sizable Groups", *Proceedings of the 9-th Workshop on Economics and Heterogeneous Interacting Agents*, CD-ROM, 2004.

Invited presentations (selected):

1. **Shinsuke Suzuki**, "Food value computation in the human orbitofrontal cortex", *Eighth International Symposium on Biology of Decision Making (SDBM2018)*, Paris, France, 2018.5.
2. **Shinsuke Suzuki**, "Value computation in the human brain: its basis and contagious nature", *Neuroeconomics Seminar*, University of Zurich, Switzerland, 2018.2.
3. **Shinsuke Suzuki**, "Value computation in the human brain: its basis and contagious nature", University of Reading, UK, 2018.1.
4. **Shinsuke Suzuki**, "Value computation in the human brain: its basis and contagious nature", *Social Mind Seminar*, University of York, UK, 2018.1.
5. **Shinsuke Suzuki**, "Value computation in the human brain: its basis and contagious nature", *BrainCom Lecture*, Kochi University of Technology, Japan, 2017.3.
6. **Shinsuke Suzuki**, "Neural representation of value: its basis and contagious nature", *17th Workshop on Mechanism of Brain and Mind*, Japan, 2017.1.
7. **Shinsuke Suzuki**, "Value computation in the human brain: its basis and contagious nature", *International Workshop on Computational Psychiatry*, Korea, 2016.10.
8. **Shinsuke Suzuki**, "Neural computations underlying human social decision-making", *2016 Young Computational Neuroscientist Workshop*, Korea, 2016.10.
9. **Shinsuke Suzuki**, "Value computation in the human brain: its basis and contagious nature", *Riken BSI Forum*, Japan, 2016. 9.
10. **Shinsuke Suzuki**, "Contagious nature of human risk preference", *Center for Information and Neural Networks Seminar*, Japan, 2016.6.

11. **Shinsuke Suzuki**, "A computational model of human consensus decision-making and its neural implementation", Tamagawa University *Brain Science Institute seminar for young researchers*, Japan, 2015.10.
12. **Shinsuke Suzuki**, "Neural mechanisms underlying human consensus decision making". *Center for Information and Neural Networks Seminar*, Japan, 2014.3.
13. **Shinsuke Suzuki**, "Learning to Simulate Others' Decisions". *Center for Information and Neural Networks Seminar*, Japan, 2012.9.
14. **Shinsuke Suzuki**, "Does one simulate the other's value-based decision making by using the neural systems for his own?", *The 38th International Seminar on Experiments and Surveys in Economics and Related Social Sciences*, Japan, 2010.3.
15. **Shinsuke Suzuki**, "Neural basis of conditional cooperation", *EXPSS 2008*, Japan, 2008.9.

Teaching experience

2017.11 – 2018.3:

Member of the PhD thesis committee (student: Takashi Fujii), Graduate School of Dentistry, Tohoku University.

2016.1 – 2016.3:

Mentor of the Lab Rotation Graduate Student program (student: Logan Cross), California Institute of Technology.

2014.6 – 2014.9:

Mentor of the Caltech's Summer Undergraduate Research Fellowships program (student: Emily Jensen), California Institute of Technology.

2014.1 – 2014.3:

Mentor of the Lab Rotation Student program (student: Emily Jensen), California Institute of Technology.

2013.1 – 2013.3:

Mentor of the Lab Rotation Student program (student: Connor Wilson), California Institute of Technology.

2006.9 – 2006.11:

Shinsuke Suzuki, Ph.D.

Teaching Assistant, Programming course, Graduate School of Systems and Information engineering, University of Tsukuba.