

Péter Bayer

Curriculum Vitae

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Current Position

- 2015– **PhD Student**, *Maastricht University*, Department of Economics, Maastricht, The Netherlands.
Supervisors: Jean-Jacques Herings, Ronald Peeters, Frank Thuijsman.

Past Positions

- 2014–2015 **Research Assistant**, *Max Planck Institute for Innovation and Competition*, Munich, Germany.
Research Assistance for Frank Müller-Langer.
- 2014 **Teaching Assistant**, *Ludwig Maximilian University of Munich*, Munich, Germany, Mathematics for Economists.
MSc Course. Lecturer: Matthias Fahn.
- 2012–2013 **Teaching Assistant**, *Eötvös Loránd University*, Budapest, Hungary, Statistics.
MSc Course. Lecturer: Gábor Kende.
- 2009–2013 **Teaching Assistant**, *Corvinus University of Budapest*, Budapest, Hungary, Basics of Mathematics I, II.
BA Course. Lecturer: Miklós Pintér.

Research Interests

Primary interests

- Game theory.**
- Games on networks.**
- Choice under uncertainty.**
- Game theory and cancer.**

Secondary interests

- Industrial organization.**
- Political economy.**
- Game theory and finance.**

Education

- 2015 **Master of Economics MSc**, *Ludwig Maximilian University of Munich*, Munich, Germany, Research Track.
Thesis title: Saliency in Risk Theory. Supervisors: Maximilian Breu and Florian Englmaier.
- 2011 **Bachelor of Applied Economics**, *Corvinus University of Budapest*, Budapest, Hungary.
Thesis title: The Importance of the Hierarchy of Beliefs in Finance. Supervisor: Miklós Pintér.

Scientific Work

Ongoing Projects

Myopic and Farsighted Players in Network Games, with *Jean-Jacques Herings, Ronald Peeters, Frank Thuijsman*.

Best-response Dynamics in Network Games with Asymmetric Interaction, with *György Kozics*.

Saliency Pricing Under Uncertainty.

Journal Publications

- 2018 **A Two-Phenotype Model of Immune Evasion by Cancer Cells**, with *Joel Brown, Kateřina Staňková*, *Journal of Theoretical Biology*, (455:191-204), <https://doi.org/10.1016/j.jtbi.2018.07.014>.

Working Papers

- 2017 **Adaptive Learning in Weighted Network Games**, with *Jean-Jacques Herings, Ronald Peeters, Frank Thuijsman*, (GSBE Research Memoranda No. 025) GSBE, Maastricht University.
Under review.

Other Publications







- 2013 **Ambiguity Neutrality**, *TDK Student Conference Proceedings*, Corvinus University. Modeling section.
- 2012 **An application of the hierarchy of beliefs in finance**, *Sigma XLIII. (2012, 3–4)*, 109–123.
In Hungarian.

Research Visits





- 2018 **Aix-Marseille University**, *Aix-Marseille School of Economics*, Marseille, France.
Visiting Yann Bramoullé, 3 months.
- 2016 **University of Illinois at Chicago**, *Department of Biological Sciences*, Chicago, IL, United States of America.
Visiting Joel S. Brown, 1 month.

Conferences, Workshops, Seminar talks

2018

-  **4C Workshop – Conflict, Competition, Cooperation and Complexity: Using Evolutionary Game Theory to Model Realistic Populations**, *University of Turin*, Turin, Italy.
Short talk, *Best-Response Dynamics in Network Games of Asymmetric Interaction*.
-  **ISDG 18 – The 18th International Symposium on Dynamic Games and Applications**, *ENSIMAG*, Grenoble, France.
Short talk, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **GTM 12 – The Twelfth International Conference on Game Theory and Management**, *St. Petersburg State University*, St. Petersburg, Russia.
Short talk, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **LEG2018 – Arne Ryde conference on Learning, Evolution and Games**, *Lund University*, Lund, Sweden.
Poster, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **Conference on Mechanism and Institution Design**, *Durham University Business School*, Durham, United Kingdom.
Short talk, *Adaptive Learning in Weighted Network Games*.
-  **Maastricht Lecture Series in Economics**, *Maastricht University*, Maastricht, Netherlands.
Short talk, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **PhD Seminar**, *Aix-Marseille School of Economics*, Marseille, France.
Short talk, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **Understanding Cancer Through Evolutionary Game Theory**, *Leiden University*, Leiden, Netherlands.
Poster, *A Two-Phenotype Model of Immune Evasion by Cancer Cells*.



2017

-  **Summer Workshop**, *Hungarian Academy of Sciences, Institute of Economics*, Budapest, Hungary.
Seminar talk, *Adaptive Learning in Weighted Network Games*.
-  **SING 13 – 13th European Meeting on Game Theory**, *Paris Dauphine University*, Paris, France.
Short talk, *Adaptive Learning in Weighted Network Games*.
-  **4C Workshop – Conflict, Competition, Cooperation and Complexity: Using Evolutionary Game Theory to Model Realistic Populations**, *City, University of London*, London, United Kingdom.
Short talk, *A Two-Phenotype Model of Immune Evasion by Cancer Cells*.
-  **Maastricht Lecture Series in Economics**, *Maastricht University*, Maastricht, Netherlands.
Seminar talk, *Adaptive Learning in Weighted Network Games*.

2016

-  **Maastricht Lecture Series in Economics**, *Maastricht University*, Maastricht, Netherlands.
Seminar talk, *A Two-Phenotype Model of Immune Evasion by Cancer Cells*.
-  **Biology Department Internal Seminar**, *University of Illinois at Chicago*, Chicago, United States of America.
Seminar talk, *Saliency Pricing Under Uncertainty*.
-  **GAMES 2016 – Fifth World Congress of the Game Theory Society**, *Maastricht University*, Maastricht, Netherlands.
Short talk, *Adaptive Learning in Weighted Network Games*.
-  **SING 12 – 12th European Meeting on Game Theory**, *University of Southern Denmark*, Odense, Denmark.
Short talk, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **4C Workshop – Conflict, Competition, Cooperation and Complexity: Using Evolutionary Game Theory to Model Realistic Populations**, *Academy of Sciences of the Czech Republic*, Prague, Czech Republic.
Short talk, *Myopic and Farsighted Players in the Local Public Goods Game*.
-  **PhD Conference in Economics**, *University of Warwick*, Coventry, United Kingdom.
Discussant.

2015

-  **Maastricht Lecture Series in Economics**, *Maastricht University*, Maastricht, Netherlands.
Seminar talk, *Saliency Pricing Under Uncertainty*.
-  **Advanced Topics in Organizational Economics Seminar**, *Ludwig Maximilian University*, Munich, Germany.
Seminar talk, *Saliency Pricing Under Uncertainty*.

Scholarships and Grants

- 2017 **International Travel Grant**, *Graduate School of Business and Economics*, €3000, to visit Aix-Marseille University between March 1st, 2018 and June 1st, 2018.
- 2016 **RISE Grant for Junior Secondment**, *Part of the Marie Skłodowska-Curie grant agreement No 690817*, €2000, to visit the University of Illinois at Chicago between August 23rd, 2016 and September 23rd, 2016.

Student Competitions and Awards

- 2013 **3rd Place, OTDK National Research Competition for Students**, *Game Theory section*, with *Mánuel Mágó*, Pannon University, Veszprém, Hungary, Paper title: The importance of the hierarchy of beliefs from a financial perspective.
Supervisor: Miklós Pintér.
- 2013 **1st Place, TDK Research Competition for Students**, *Game Theory section*, Corvinus University of Budapest, Budapest, Hungary, Paper title: Ambiguity neutrality.
Supervisor: Miklós Pintér.

- 2011 **1st Place, TDK Research Competition for Students**, *Game Theory section with Mánuel Mágó*, Corvinus University of Budapest, Budapest, Hungary, Paper title: The importance of the hierarchy of beliefs from a financial perspective.
Supervisor: Miklós Pintér.
- 2010 **2nd Place, Hajós György National Mathematics Competition**, *Individual Competition*, University of Miskolc, Miskolc, Hungary.
Coach: Zoltán Kánnai.
- 2010 **3rd Place, Hajós György National Mathematics Competition**, *Team Competition with Mánuel Mágó, Anna Patrubány, Dóra Petróczy*, University of Miskolc, Miskolc, Hungary.
Coach: Zoltán Kánnai.

Refereeing Work

Mathematical Social Sciences, BE Journal of Theoretical Economics.

Teaching Experience

Mathematical foundations I, *Undergraduate, Corvinus University of Budapest*, Elements of calculus, linear algebra, unconstrained optimization.
Teaching Assistant.

Mathematical foundations II, *Undergraduate, Corvinus University of Budapest*, Elements of calculus, topology, probability theory, statistics.
Teaching Assistant.

Statistical Software, *Graduate, Eötvös Loránd University*, SPSS.
Teaching Assistant.

Mathematics for Economists, *Graduate, Ludwig Maximilian University of Munich*, Elements of calculus, topology, probability theory, optimization.
Teaching Assistant.

Microeconomics, *Undergraduate, Maastricht University*.
Teaching Assistant, problem based learning method.

Economics and Business, *Undergraduate, Maastricht University*, Elements of microeconomics and macroeconomics.
Teaching Assistant, problem based learning method.

Economy Game, *Undergraduate, Maastricht University*, Introduction to experimental economics.
Teaching Assistant, skills course.

Languages

Hungarian, *Native.*

English, *Fluent.*

French, *Intermediate.*

German, *Intermediate.*