

## *Curriculum Vitae*

# Christina Katt-Pawlowitsch

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*Born:* 1974, in Vienna, Austria  
*Nationality:* Austrian  
*Current employment:* Assistant Professor (Maître de Conférences) in Applied Mathematics at the Université Paris–Panthéon–Assas  
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## 1 Education and academic degrees

<i>1998–2004</i>	Undergraduate studies in Economics, University of Vienna, including a one-year stay at the Université Catholique de Louvain (Belgium), 2001–2002.
<i>2004–2007</i>	PhD Program in Economics, University of Vienna
<i>2007</i>	Doctorate in Economics (with Honors). Title of the thesis: “Efficiency and Inefficiency in Sender-Receiver Games.” Advisors: Prof. Gerhard Sorger (Department of Economics), Prof. Karl Sigmund (Department of Mathematics).

## 2 Academic positions

<i>2004–2007</i>	Research and teaching assistant, University of Vienna, Department of Economics
<i>2007–2009</i>	Post-doctoral research fellow at Harvard University, Program for Evolutionary Dynamics
<i>2009–2010</i>	Lecturer at the University of Vienna, Department of English and American Studies, NatSIDE (Naturalist Studies in the Diachrony of English) group
<i>2010–2012</i>	Post-doctoral research fellow at Paris School of Economics
<i>2012–present</i>	Assistant professor (Maître de Conférences) in Applied Mathematics at the Université Paris–Panthéon–Assas

### 3 Visiting scholarships and part-time academic appointments

<i>2007/01–03</i>	Harvard University, Program for Evolutionary Dynamics
<i>2013/10–12</i>	Harvard University, Program for Evolutionary Dynamics
<i>2014/10–2015/01</i>	New York University, Department of Politics
<i>2018/09</i>	University of Vienna, Faculty of Mathematics
<i>2019/01</i>	University of Vienna, Faculty of Mathematics
<i>2019/07–09</i>	University of Vienna, Faculty of Mathematics
<i>2020/01</i>	University of Vienna, Faculty of Mathematics
<i>2020/07–09</i>	University of Vienna, Faculty of Mathematics
<i>2021/01 and 05–06</i>	University of Vienna, Faculty of Mathematics
<i>2022/05</i>	University of Graz, Austria
<i>2023/05 and 07–08</i>	University of Vienna, Faculty of Mathematics

External teaching appointments:

<i>2010–2012</i>	External lecturer at the University of Vienna (Academic Writing)
<i>2016–2021</i>	External lecturer at the University of Vienna (Academic Writing)
<i>2019</i>	External lecturer at the École Polytechnique (Microeconomics)

### 4 Teaching

University of Vienna:

<i>2004–2007</i>	Principles of economics, introduction to microeconomics, introduction to game theory (undergraduate program in economics), dynamic models in economics (MA in economics)
<i>2009–2010</i>	Game theory for linguists (Department of English and American Studies)
<i>2009–2012</i>	Workshop in academic writing
<i>2016–2021</i>	Workshop in academic writing

Université Paris–Panthéon–Assas:

<i>2012–present</i>	Mathematics (analysis, linear algebra) and statistics (probabilities and random variables) for the undergraduate program in economics, notably for the <i>Collège d'Économie</i> (selective undergraduate program) in French and in English Applied game theory, MA program (in English) Political Economy, undergraduate program in law studies (in French) Workshop in academic writing, PhD program (in English)
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École Polytechnique:

<i>2019</i>	Intermediate Microeconomics (in English)
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## 5 Research interests

Game theory and evolutionary game theory, with a special interest in solution concepts (equilibrium refinement from both a classical and evolutionary point of view) and applications of game theory in the study of language.

## 6 Publications

### Articles in peer-reviewed journals

1. 2007. “Finite populations choose an optimal language.” *Journal of Theoretical Biology*, 249, 606–616.
2. 2008. “Why evolution does not always lead to an optimal signaling system.” *Games and Economic Behavior* 63, 203–226.
3. 2008. “One-third rules with equality: second-order evolutionary stability conditions in finite populations,” with Immanuel Bomze. *Journal of Theoretical Biology*, 254, 616–620.
4. 2011. “Neutral stability, drift, and the diversification of languages,” with Panayotis Mertikopoulos and Nikolaus Ritt. *Journal of Theoretical Biology* 287, 1–12.
5. 2012. “Stochastic evolutionary dynamics resolve the Traveler’s Dilemma,” with Michael L. Manapat, David G. Rand, and Martin A. Nowak. *Journal of Theoretical Biology* 303, 119–127.
6. 2020. “Making see: a structural analysis of mathematical and in particular game-theoretic writing.” *Narrative*, 28 (3), 327–353.
7. 2021. “Strategic manipulation in Bayesian Dialogues.” *Synthese* 199, 11279–11303.

### Other

1. 2023. “Introduction” to *Special Issue of Revue Économique in Honor of Robert Aumann*, with Antoine Billot. To appear in December 2023.

## 7 Work in progress

### Articles

- “The evolutionary dynamics of costly signaling,” (with Josef Hofbauer); under revision (“revise and resubmit”) at *The International Journal of Game Theory*
- “Extensive-form rationalizability and invariance”
- “Equilibrium refinement in signaling games as truth conditions of counterfactuals”

### Books

- “A Workshop for Writers in Economics and Related Disciplines”
- “Dialogues Aumanniennes” (in French)

## 8 Invited talks and talks at conferences

<i>2006</i>	Vienna Working Group in Bio-Mathematics Workshop on Economics and Philosophy, Universidad Nacional de Educacion a Distancia, Madrid, Spain European Mathematical Psychology Group Meeting, Brest, France Invited talk at the Symposium “Games in Communication”, University of Bielefeld
<i>2007</i>	Vienna Working Group in Bio-Mathematics Symposium “Games in Communication II”, University of Bielefeld
<i>2008</i>	University of Illinois at Urbana-Champaign, USA
<i>2009</i>	6 Lectures in Game Theory for Linguists, Working Group in Language Change, University of Vienna
<i>2010</i>	Séminaire TOM – Théorie, Organisation et Marché, Paris School of Economics Paris Working Group on Evolutionary Game Theory
<i>2011</i>	Paris Working Group on Evolutionary Game Theory 22nd International Game Theory Conference at Stony Brook, USA
<i>2012</i>	SIGMA research group, Institut Jean Nicod, Paris THEMA, Economics Department, Université de Cergy-Pontoise, France Theory Workshop, Centre d’Economie de la Sorbonne, Paris 23rd International Game Theory Conference at Stony Brook, USA
<i>2013</i>	“Minds in Common,” Workshop, École Normale Supérieure, Paris Randomness and Divine Providence, Conference, Calvin College, Grand Rapids, USA Program for Evolutionary Dynamics, Harvard University, USA
<i>2014</i>	Study Group in Mathematical Psychiatry, Columbia University, USA
<i>2016</i>	The Limits and Possibilities of Narrative Explanations, Workshop, Wissenschaftskolleg Berlin, Germany Experiments & Models of Social Networks: Cooperation, Conflict and Trust, Workshop, Copenhagen, Denmark Economic Theory Conference, University of Warwick, UK World Congress of Game Theory, Maastricht, NL Invited talk: Economics Department, University of Maastricht, NL
<i>2018</i>	International Symposium on Dynamic Games and Applications, Grenoble, France Dialogue and Game Theory Reading Group, Université Paris-Diderot, Paris 8, Laboratoire Linguistique Formelle (LLF) Workshop on Optimization, Game Theory, and Data Analysis (at the occasion of Immanuel Bomze’s 60th birthday), University of Vienna

- 2019
- January 17: Economics Department, KIT–Karlsruhe Institute of Technology, Germany. Invited talk: “Costly signaling: Rationality and Evolution”
- April 30: University of Vienna, Working Group in Mathematical Biology. Talk: “Costly signaling: rationality and evolution”
- May 2: Max Planck Institute for Evolutionary Biology, Plön, Germany. Talk: “Costly signaling: rationality and evolution”
- June 4–5: Workshop on Dynamic Games, CIRM–Centre Internationale de Rencontres Mathématiques, Luminy, France. Talk: “Costly signaling: rationality and evolution”
- June 20: Journée d’Economie, Université Panthéon-Assas, Paris II. Talk: “Costly signaling: rationality and evolution”
- October 4: Vienna Workshop in Evolutionary Game Theory, University of Vienna. Talk: “The evolutionary dynamics of costly signaling”
- December 16: Paris Game Theory Seminar, Institut Henri Poincaré. Talk: “The evolutionary dynamics of costly signaling”
- 2020
- January 17: University North, Department of Communication, Koprivnica (Croatia). Talk: “Reading Barthes: A structural analysis of mathematical writing.”
- January, 30: London School of Economics, Seminar on Combinatorics, Games and Optimisation. Talk: “Costly signaling: rationality and evolution”
- September 7–8: SMAI–MODE (Société de Mathématiques Appliquées et Industrielles – Mathématiques de l’Optimisation et de la Décision) days, Paris-Saclay (online). Talk: “Costly signaling: rationality and evolution”
- 2021
- April 30: University of Graz, Austria. Invited talk: “Strategic manipulation in Bayesian Dialogues” (online)
- November, 26–28: Conference in Memory of Philippe Mongin, University Paris II, France. France: “Structural analysis of narrative and game theory”
- 2022
- April 5–6: Workshop *What is a game? Fresh perspectives on games and human behavior*, London School of Economics, UK. Talk: “The sequence of functions in time vs. the matrix: a parallel in debates in game theory and narrative analysis”
- May 15: University of Graz, Austria. Invited talk: “Costly signaling: rationality and evolution”
- June 20–22: French Conference on Complexity FrCCS2022, Paris, France. Talk: “Strategic manipulation in Bayesian Dialogues”
- June 28–29: Paris-Berkeley Workshop on Probability and Meaning, ENS, Institut Jean Nicod, Paris. Talk: “Meaning in costly-signaling games”
- July 18–22: 41<sup>st</sup> Maximum Entropy Conference, Institut Henri Poincaré, Paris. Talk: “Strategic manipulation in Bayesian Dialogues”
- December 9 : Centre d’Économie de la Sorbonne. Invited talk: “Costly signaling: rationality and evolution”

<i>2023</i>	<p>February 18–22: Conference “Writing Research Across Borders 2023,” Norwegian University of Science and Technology. Talk: “Free indirect style in mathematical writing”</p> <p>June 15: 1st Paris Workshop on Games, Decisions, and Language. Talk: ”Implicatures in Bayesian Dialogues”</p> <p>October 26–27: Second Paris Workshop on Dynamic Games. Talk: “The evolutionary dynamics of costly signaling”</p> <p>December 21: Workshop “Probabilities and Interaction,” University of Vienna, Faculty of Mathematics. Talk: “Belief-based refinements, index of equilibria, and invariance in signaling games”</p>
<i>2024–upcoming</i>	<p>April 15–17: LSE Game Theory Workshop</p>

## 9 Organization of Workshops and Conferences

<i>2019</i>	<p>Mai 22–24: Workshop on Signaling in Markets, Auctions, and Games, Université Panthéon-Assas, Paris II (co-organized with Olivier Bos)</p> <p>October 4: Vienna Workshop on Evolutionary Game Theory, University of Vienna (co-organized with Josef Hofbauer)</p>
<i>2021</i>	<p>October 11: Colloquium in Honor of Robert Aumann, Université Panthéon-Assas, Paris II (co-organized with Antoine Billot)</p>
<i>2022</i>	<p>June 8–9: Signaling in Social Interactions: a Multidisciplinary Approach, Université Panthéon-Assas, Paris II (co-organized with Olivier Bos)</p>
<i>2023</i>	<p>June 15–16: 1st Paris Workshop on Games, Decisions, and Language, Université Paris–Panthéon-Assas (main organizer)</p> <p>December 21: Workshop “Probabilities and Interaction,” University of Vienna, Faculty of Mathematics (co-organized with Mathias Beiglböck)</p>
<i>2024 upcoming</i>	<p>June 13–14: 2nd Paris Workshop on Games, Decisions, and Language, Université Paris–Panthéon-Assas (main organizer)</p>

## 10 Other professional activities

### Reviewing

Annals of Operations Research (1), The British Journal for the Philosophy of Science (1), Dynamic Games and Applications (3), Econometrica (1), Economic Theory (3), Erkenntnis (1), European Journal of Operational Research (1), Games (4), International Game Theory Review (1), International Journal of Game Theory (4), Journal of Economic Behavior & Organization (2), Journal of Logic, Language and Information (1), Journal of Mathematical Biology (1), Journal of Semantics (1), Journal of Theoretical Biology (6), PLOS Computational Biology (1), PNAS Nexus (1), RAIRO Operations Research (1), Revue Economique (1), Social Sciences (1).

FWF–Austrian Science Fund (1), NSF–National Science Foundation, USA (1), NWO–Dutch Research Council (1).

In parenthesis: the number of manuscripts (applications) reviewed.

## Editorial responsibilities

Since January 2021: member of the editorial board of *The International Journal of Game Theory*.

2022–23: Guest editor of the Special Issue of *Revue Économique in Honor of Robert Aumann* (together with Antoine Billot), June 2023.

2023–24: Guest editor of the Special Issue of *The International Journal of Game Theory* on “Games, Decisions, and Language” (together with: Paul Égré, Joel Sobel, Benjamin Spector, and Bernhard von Stengel). To appear in 2024.

## Institutional services

<i>2012 – 2020</i>	Member of the Committee of the Faculty of Economics and Business (Conseil de l’UFR)
<i>2014 – present</i>	Member of the board of the CMI (Cursus du Master en Ingénierie “Économie, Finance Qualitative, Statistique,” a selective undergraduate program in economics, at the University Paris–Panthéon–Assas; responsible for the matching of students to projects proposed by faculty)
<i>2018 – present</i>	Member of the Bureau of the Department of Economics of the University Paris–Panthéon–Assas
<i>2021 – present</i>	Member of the Scientific Committee of the Labex MME-DII (Modèles Mathématiques et Économiques de la Dynamique, de l’Incertitude et des Interactions)
<i>2023 – present</i>	Member of the Collège de formation et de recherche (CFR) “Risque, environnement et sécurité” of the University Paris–Panthéon–Assas

## Recruitment committees

<i>2017</i>	Member of the committee for the recruitment of an assistant professor in mathematics at the University Paris–Panthéon–Assas
<i>2020</i>	Member of the committee for the recruitment of a “professeur agrégé” (PRAG) in mathematics at the University Paris–Panthéon–Assas
<i>2021</i>	Member of the committee for the recruitment of an assistant professor in mathematics at the University Paris 1 Panthon-Sorbonne (external member)

## Supervising

### Undergraduate projects of students of the CMI EFiQuaS:

Since 2014, about 8 students per year.

### Supervision of research interns at our laboratory LEMMA:

- 2018-19 : Emma Morato (CMI EFiQuaS)
- 2019-20 : Pauline Oger (CMI EFiQuaS)
- 2020-21 : Clément Lauré(CMI EFiQuaS)
- 2021-22 : Elodie Connehet (CMI EFiQuaS)
- 2022-23 : Victorien Marette (ENS, Paris Saclay), Arsen Pidpurachinskyi (CMI EFiQuaS)

**Master theses (Master *Ingénierie Statistique et Financière*, Paris–Panthéon–Assas):**

- 2018–19 : Agathe Cannet (M2), Aurlien Legros (M2)
- 2019–20 : Ngoc Hoang (M2), Nabila Ouliz (M2)
- 2020–21 : Lucas Walter (M1)
- 2021–22 : Lucas Walter (M2), Galle Thiombiano (M1)
- 2022–23 : Galle Thiombiano (M2)

## 11 Other

### Non-academic publications

“Leben ist nicht genug” [Short story in German], in: Christa Stippinger (ed.) *Grenzgänger*, Edition Exil, Vienna 2001.

### Languages

German, English, French