PERSONAL INFORMATION

Pantelis Karapanagiotis

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✆ Google Scholar bl1bbVgAAAAJ

⌨ Github pi-kappa-devel

A Mathematical Microeconomist

CURRENT AFFILIATIONS

Jul 2021 .. present

Assistant Professor

EBS University (Group of Economics and Philosophy)
Wiesbaden, Germany

Jul 2021 .. present

Research Affiliate

Leibniz Institute for Financial Research SAFE
Frankfurt am Main, Germany

EDUCATION

Oct 2015 .. Dec 2020

Ph.D. in Quantitative Economics

Graduate School of Economics Finance and Management
Frankfurt am Main, Germany

– Thesis: Essays in Behavioral Industrial Organization and Finance.
– Supervisors: Uwe Walz and Matthias Blonski.

Oct 2015 .. Mar 2019

M.Sc. in Quantitative Economics

Graduate School of Economics Finance and Management
Frankfurt am Main, Germany

– Thesis: Asset pricing with overlapping generations.

Mar 2011 .. Nov 2014

Ptychio (4-year undergrad.) in Mathematics

National and Kapodistrian University of Athens - **Department of Mathematics**
Athens, Greece

– Research Traineeship: Editing **notes on differential geometry**.
– Scholarship: Exchange year at **Ludwig Maximilians University Munich** - **Department of Mathematics**.

Sep 2006 .. Jan 2008

M.Sc. in Economic Theory

Athens University of Economics and Business - **Department of Economics**
Athens, Greece

– Traineeship: Editing **notes on differential geometry**.
– Thesis: Discrete state space estimation.

Sep 2002 .. Sep 2006 — Ptychio (4-year undergrad.) in International Economics

Athens University of Economics and Business - **Department of International and European Economic Studies**
Athens, Greece

– Thesis: Participants' Behavior in London's stock exchange using microstructure data.
– Research Traineeship: Assisted in research on bilateral trade between Greece, Israel and Palestine.

PREVIOUS AFFILIATIONS

Nov 2016 .. Apr 2021 — Research Assistant

Goethe University (Department of Management and Microeconomics)
Frankfurt am Main, Germany

– Participation in the EurHisFirm project on behalf of SAFE's data center.
– Member of EurHisFirm's Working Group for Identification and Standards.

Aug .. Dec 2018 & Nov .. Dec 2019 — External Lecturer

EBS University of Business and Law
Wiesbaden, Germany

Mar .. Jul 2006 — Student Assistant

Institute of International Economic Relations
Athens, Greece

– Project: Bilateral trade between Greece, Israel, and Palestine.

RESEARCH VISITS

Feb .. Apr 2020 — Visiting Researcher

Paris School of Economics
Theodor-W.-Adorno-Platz 4, 60323 Frankfurt am Main, Germany

– EurHisFirm infrastructure collaboration; supervised by Angelo Riva.

GRANTS AND FUNDING

May 2023 — EBS Research Fund

Seed funding for the project Face Reading Technology: Improving Preference Prediction from Self-Reports Using Micro Expression

Jan 2020 — SAFE Research Fund

Seed funding for the project An Extensible Model for Historical Financial Data with an Application to German Company and Stock Market Data

TEACHING

Courses

Goethe Business School
Frankfurt am Main, Germany

– Coding and Data Visualization, M.Sc.   Winter Semester 2024-25 (Forth.)

EBS University
Wiesbaden, Germany

– Strategic Interactions in Markets, M.Sc.	Fall Term 2023
– Economics of the Market, B.Sc.	Fall Terms 2021 .. 2023
– Managerial Economics Part I, M.Sc.	Fall Term 2022
(Game Theory and Industrial Organization)	
– Supportive Quantitative Methods, B.Sc.	Summer Terms 2022, 2023
– Managerial Economics Part II, M.Sc.	Fall Term 2021
(Incentive Theory)	

Goethe University
Frankfurt am Main, Germany

– Real Analysis, pre-semester Ph.D.	Winter Semester 2017-18

Tutorials

EBS University
Wiesbaden, Germany

– Managerial Economics Part II, M.Sc.	Fall Terms 2018, 2019
(Incentive Theory)	
– Managerial Economics Part I, M.Sc.	Fall Term 2018
(Game Theory)	

Goethe University
Frankfurt am Main, Germany

– Management of Business Processes, M.Sc.	Summer Semester 2020
– Advanced Microeconomics I Part II, Ph.D.	Winter Semester 2018-19
(General Equilibrium)	
– Advanced Microeconomics II Part II, Ph.D.	Summer Semesters 2017, 2018
(Game Theory)	
– Competition Economics, M.Sc.	Summer Semester 2017

PROFESSIONAL EXPERIENCE

May 2010 .. Jun 2013 Sole Proprietorship

Software Engineering, Financial Reporting
Athens, Greece

– Design and development of database-driven financial and reporting services for small private and official sector organizations.
– Developed business management software (Resolution), accounting, clientele, and supplier databases.

Aug 2009 .. May 2010 Communication Center of 13th Special Operation Administration

Cryptographic Communication Department (Military Service)
Athens, Greece

– Administrative support.

Jul 2008 .. Sep 2008 Business Intelligence Engineering Internship

Relational
Athens, Greece

– Storage, management, and utilization of relational databases. Financial reporting.

WORKING PAPERS

1   Krause, F., K. Talke, P. Karapanagiotis, and M. Frermann: "Understanding Design Styles: Development of a Characterization and an AI-Based Automatic Picture Classification Application". N.d.

2   Karapanagiotis, P. and M. Liebald: "Entity Matching with Similarity Encoding: A Supervised Learning Recommendation Framework for Linking (Big) Data". SAFE Working Paper Series (No. 398). 2023. DOI: 10.2139/ssrn.4541376.

3   Karapanagiotis, P., F. Krause, and J. Krick: "Face Reading Technology: Improving Preference Prediction from Self-Reports Using Micro Expressions". N.d.

4   Karapanagiotis, P.: "Rational Inattention Dynamics in Stochastic Games: Coordination and Conditioning". N.d.(a). DOI: 10.2139/ssrn.3828381.

5   Heller, D., P. Karapanagiotis, and Ø. A. Nilsen: "Small and Vulnerable? Financial Constraints during Economic Crises". N.d.

JOURNAL ARTICLES

6   Karapanagiotis, P. and P. Reimers: *Why does the Schooling Gap Close while the Wage Gap Persists across Country Income Comparisons?* In: *Journal of Economic Dynamics and Control* 159 (Feb. 2024). DOI: 10.1016/j.jedc.2023.104805.

7   Karapanagiotis, P.: *The R Package markets: Estimation Methods for Markets in Equilibrium and Disequilibrium*. In: *Journal of Statistical Software* 108.2 (Feb. 2024), pp. 1–39. DOI: 10.18637/jss.v108.i02.

8   Gram, D., P. Karapanagiotis, M. Liebald, and U. Walz: *Design and Implementation of a Historical German Firm-level Financial Database*. In: *Journal of Data and Information Quality* 14.3 (Sept. 2022). DOI: 10.1145/3531533.

BOOK CHAPTERS

9   König, W., M. Frank, J. Braswell, L. Ranft, and P. Karapanagiotis: "How to Ensure Collective Action in Multinational Projects: Insights from the EurHisFirm Project". In: *Digitalization Across Organizational Levels: New Frontiers for Information Systems Research*. Ed. by D. Jens, J. Förderer, K. Thomas, R. Franz, and K. Spohrer. Gewerbestrasse 11, 6330 Cham, Switzerland: Springer International Publishing, Nov. 2022, pp. 41–77. DOI: 10.1007/978-3-031-06543-9_3.

CONFERENCE PAPERS AND PROCEEDINGS

10   Adam, S., J. Annaert, F. Buelens, B. B. Couasnon, B. Cule, A. de Vicq, C. Guerry, P.-C. Hautcoeur, T. Paquet, A. R. Camacho, I. L. Floch, A. Lemaitre, P. Karapanagiotis, J. Poukens, and A. Riva: "Data extraction and matching: The EurHisFirm experience". In: *Methodological Advances in the Extraction and Analysis of Historical Data* (Kellogg School of Management - Northwestern University). Dec. 2021. https://hal.archives-ouvertes.fr/hal-03828381.

11   Gram, D., P. Karapanagiotis, J. Krzyzanowski, M. Liebald, and U. Walz: "An Extensible Model for Historical Financial Data with an Application to German Company and Stock Market Data". In: *ICTeSSH 2021 Proceedings*. July 2021. DOI: 10.21428/7a45813f.553a9b40.

TECHNICAL REPORTS

12   Ranft, L. M., P. Karapanagiotis, J. Braswell, and W. König: *Updated Technical Document on the Preliminary Data Model*. Tech. rep. EurHisFirm Deliverable 5.4, Apr. 2021. DOI: 10.5281/zenodo.4724802.

13   Karapanagiotis, P.: *Technical Document on Preliminary Common Data Model*. Tech. rep. EurHisFirm Deliverable 5.2, Feb. 2020. DOI: 10.5281/zenodo.3686930.

14   Karapanagiotis, P.: *Technical Document on National Data Models*. Tech. rep. EurHis-Firm Deliverable 5.1, Nov. 2019. DOI: `10.5281/zenodo.3467926`.

PH.D. THESIS

15   Karapanagiotis, P.: "Essays on Behavioral Industrial Organization and Finance". PhD thesis. Johann Wolfgang Goethe-University Frankfurt am Main, May 2021.

OPEN SOURCE SOFTWARE

16   Karapanagiotis, P. and M. Liebald: *MLMatch: Entity Matching with Similarity Encoding*. Version 0.0.11. Forthcoming. Available on request.

17   Karapanagiotis, P. and P. Reimers: *structural-schooling: Gender Labor Biased Technological Change with Schooling*. Version JEDC. Replication code. source:`https://github.com/pi-kappa-devel/structural-schooling`. 2023.

18   Karapanagiotis, P.: *markets: Estimation Methods for Markets in Equilibrium and Disequilibrium*. Version 1.1.5. R package. source:`https://github.com/pi-kappa-devel/markets` docs:`https://markets.pikappa.eu/`. 2021. `https://cran.r-project.org/package=markets`.

19   Karapanagiotis, P.: *rad: Radial Attention Model*. Version 1.4.0. Replication code. source:`https://github.com/pi-kappa-devel/rad` docs:`https://rad.pikappa.eu/`. July 2019. DOI: `10.5281/zenodo.3353647`.

PROPRIETARY SOFTWARE

20   Karapanagiotis, P.: *Resolution*. Version 3.1.2. May 2010 .. Jun 2013 - not maintained.

CONTRIBUTIONS TO OPEN SOURCE PROJECTS

21   Modi, K.: *ox-hugo: A carefully crafted Org exporter back-end for Hugo*. Contributed use case. Oct 2022.

22   Gomolka, M.: *sdcLog: Tools for statistical disclosure control in research data centres*. Patch to allow setting the sdc_log environment. Jul 2021.

CONFERENCES

23   "Understanding the Co-Existence of Design Styles: Theory Development and Algorithm-Based Picture Recognition". In: *Journal of Marketing Virtual Symposium: Marketing Impact with Research-Driven Apps*. Virtual, Oct 20th, 2023.

24   "Face Reading Technology: Improving Preference Prediction from Self-Reports Using Micro Expressions". In: *Technology, Innovation, and Entrepreneurship*. Frankfurt am Main, Sep 21st .. 22nd, 2023.

25   Nilsen, Ø. A.: "Small and Vulnerable? Financial Constraints during Economic Crises". In: *RES and SES Annual Conference*. Glasgow, Apr 3rd .. 5th, 2023.

26   Liebald, M.: "A Historical Firm-Level Database: A Data Model and the Issue of ID Linking". In: *The 19th World Economic History Congress*. Paris, Jul 25th .. 29th, 2022.

27   Nilsen, Ø. A.: "Small and Vulnerable? Financial Constraints during Economic Crises". In: *The 15th International Risk Management Conference*. Bari, Jul 4th .. 5th, 2022.

28   Annaert, J.: "Data extraction and matching: the EurHisFirm experience". In: *Methodological Advances in the Extraction and Analysis of Historical Data*. Virtual, Dec 3rd, 2021.

29   "Dynamic Choice with Volitional Attention: Experience and Endogenous Narrow Framing". In: *European Association for Research in Industrial Economics Conference*. Bergen / Virtual, Aug 27th .. 28th, 2021.

30   "Dynamic Choice with Volitional Attention: Experience and Endogenous Narrow Framing". In: *European Economic Association - Econometric Society European Meeting*. Copenhagen / Virtual, Aug 23rd .. 27th, 2021.

31   "Small and Vulnerable? Financial Constraints during Economic Crises". In: *The 11th RCEA Money Macro & Finance Conference*. Rimini / Virtual: The Rimini Centre for Economic Analysis, Jul 27th .. 28th, 2021.

32   "The R Package diseq: Estimation Methods for Markets in Equilibrium and Disequilibrium". In: *useR! The R Conference*. Virtual, Jul 5th .. 9th, 2021.

33   "An Extensible Model for Historical Financial Data with an Application to German Company and Stock Market Data". In: *International Conference on ICT Enhanced Social Sciences and Humanities*. Virtual, Jun 28th .. 30th, 2021.

34   "The Assessment of Market-Clearing as a Model Selection Problem". In: *Warsaw 16th International Economic Meeting*. Warsaw / Virtual, Jun 24th .. 25th, 2021.

35   "Rational Inattention Dynamics in Stochastic Games: Coordination and Conditioning". In: *International Association for Research in Economic Psychology - Society for the Advancement of Behavioral Economics Conference*. Virtual, Jun 10th .. 13th, 2021.

36   "Dynamic Choice with Volitional Attention: Experience and Endogenous Narrow Framing". In: *International Association for Research in Economic Psychology - Society for the Advancement of Behavioral Economics Conference*. Virtual, Jun 10th .. 13th, 2021.

37   "Invisible Market Forces with Observable Effects". In: *Modelling with Big Data & Machine Learning: Measuring Economic Instability*. Virtual: Bank of England, Federal Reserve Board, and King's College London, Nov 4th .. 6th, 2020.

38   Nilsen, Ø.: "Small and Vulnerable? Financial Constraints during the Financial Crisis". In: *Verein für Socialpolitik Annual Conference*. Cologne / Virtual, Sep 27th .. 30th, 2020.

39   "Model Selection, Estimation, and Marginal Effects for Markets in Equilibrium and Disequilibrium". In: *Goethe University's Microeconomics and Management Colloquium*. Kleinwalsertal, Austria, Feb 13th .. 16th, 2020.

40   "Costly Consideration and Dynamic Choice Set Formation". In: *Goethe University's Microeconomics and Management Colloquium*. Kleinwalsertal, Austria, Feb 8th .. 11th, 2018.

SEMINARS AND WORKSHOPS

41   "Face Reading Technology: Improving Preference Prediction from Self-Reports Using Micro Expressions". In: *EBS Research Seminar*. Oestrich-Winkel, Nov 16th, 2023.

42   "Face Reading Technology: Improving Preference Prediction from Self-Reports Using Micro Expressions". In: *EBS Economics Group Retreat*. Neuwied, May 7th, 2023.

43   "Machine Learning Record Matching with Similarity Encoding". In: *Digitisation and OCR Workshop*. Groningen, May 4th, 2023.

44   "The Regional and Federal Dynamics of the German Debt during the First World War". In: *Historical Big Data: Research Data and Infrastructures for Socioeconomic History and Social Sciences*. Madrid: Laureano Figuerola Institute of History, Social Sciences, Universidad Carlos III de Madrid, and EurHisFirm Consortium: Long Term Data for Europe, Dec 15th .. 16th, 2022.

45   "Why Does the Schooling Gap Close While the Wage Gap Persists?" In: *Organizations, Markets, and Policy Interventions*. Oestrich-Winkel: EBS University for Business and Law, Nov 9th, 2022.

46   "Dynamic Choice with Volitional Attention: Experience and Endogenous Narrow Framing". In: *University of Copenhagen Seminar*. Copenhagen, Denmark, Dec 14th, 2021.

47   "Small and Vulnerable? Financial Constraints during Economic Crises". In: *Fourth ERMEES Macroeconomics Workshop*. Strasbourg: University of Strasbourg, BETA research laboratory, and ERMEES research team, Dec 3rd, 2021.

48. "Rational Inattention Dynamics in Stochastic Games: Coordination and Conditioning". In: *EBS Economics and Philosophy Seminar*. Wiesbaden, Germany, Jun 1st, 2021.

49. "Small and Vulnerable? Financial Constraints during the Financial Crisis". In: *SAFE Brown Bag Seminar*. Frankfurt am Main, Germany, Nov 25th, 2020.

50. "Invisible Market Forces with Observable Effects". In: *SAFE Brown Bag Seminar*. Frankfurt am Main, Germany, Oct 28th, 2020.

51. "Dynamic Choice with Volitional Attention". In: *Management and Microeconomics Brown Bag Seminar*. Frankfurt am Main, Germany, Jul 9th, 2020.

52. "Costly Consideration and Dynamic Choice Set Formation". In: *Joint Macro-Finance Seminar*. Kleinwalsertal, Austria: Goethe University Frankfurt and Johannes Gutenberg University of Mainz, Jul 9th, 2020.

PERSONAL SKILLS

Mother tongue   Greek

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C2	C2	C2	C2	C2
German				
C1	C1	C1	B2	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user

Common European Framework of Reference for Languages

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Level 6	Level 5	Level 5	Level 6	Level 6

Digital competences - Self-assessment grid

Digital skills
– Programming
  • Experienced: C ($\leq$ std17), C++ ($\leq$ std21). Working Knowledge: Emacs Lisp (30.*), java
– Scripting
  • Experienced: • Experienced: Python (3.*), R (4.*), MATLAB/Octave. Beginner: Stata
– Typesetting
  • Experienced: LATEX, tikz/pgf
– Web
  • Experienced: JavaScript ($\leq$ ES2023), Working Knowledge: PHP (8.*), Typescript
– Databases
  • Experienced: MySQL/MariaDB, PostgreSQL, SQLite. Working Knowledge: Oracle SQL, Ms. SQL server.
– APIs & Libraries
  • Experienced: TensorFlow, Keras, open-mpi, MySQL C API, libpq (PostgreSQL C API), threads, Drupal 9, plotly js, reveal js. Working Knowledge: Hugo.