

# Simone Vannuccini

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## Office Contact Information

GREDEG — Groupe de recherche en droit, économie et gestion  
Campus Azur du CNRS — 250 rue Albert Einstein — CS 10269  
F06905 Sophia Antipolis Cedex

Born: May 16, 1985—Pistoia/IT

Nationality: Italian

Languages: IT (mother tongue), EN (fluent), FR (basic), GER (basic)

## Research Interests

*Economics of Innovation and Technological Change • Artificial Intelligence • Digital transformations • Industrial Dynamics & Organization • Science and Technology Policy • Complexity Theory • European Studies & Public Policy*

## Position

### Université Côte d'Azur

Chaire de Professeur Junior en économie de l'Intelligence Artificielle et de l'Innovation

## Other/Previous Appointments

### Science Policy Research Unit (SPRU), University of Sussex Business School

2022–Current Honorary Lecturer in the Economics of Innovation

2018–2022 Lecturer in the Economics of Innovation

2022–Current Associate Fellow, Digital Futures at Work (Digit) Centre

2021–2022 Project Member, Horizon 2020 [Pillars — Pathways to Inclusive Labour Markets](#)

### Imperial College Business School (London/UK)

2019–2022 Visiting Lecturer and Module Lead, 'Economics and Strategy for Innovation' (PG)

### Friedrich Schiller University Jena (Jena/DE)

2018–Current Associate Fellow, Graduate College 'The Economics of Innovative Change'

2016–2018 Research Fellow/Post-doc, Chair of Economics/Microeconomics

2017–2018 Coordinator, Double Degree M.Sc. Programme Uni–Jena–University of Insubria

### University of Insubria (Varese/IT)

2019–Current Faculty Board Member of the [PhD Program in Methods and Models for Economic Decisions](#), University of Insubria.

2016–2019 Adjunct Professor of Economics of Innovation

2015 Visiting Professor of Economics of Innovation

### European Commission — Joint Research Centre (JRC)

2020 JRC Ispra: Contracted Researcher — studies on Artificial Intelligence and productivity

2017 JRC Seville: Contracted Researcher — study on *Top Corporate R&D investors and Knowledge Diffusion*

### University of Illinois at Urbana–Champaign (Champaign/IL)

2016–2017 Visiting Researcher (December 2016–January 2017)

### Center for Studies on Federalism (Turin/IT)

## Education

### Friedrich Schiller University Jena and Max Planck Institute of Economics

- 2016 Ph.D. in Economics of Innovative Change, (Supervisor: Prof. Dr. Uwe Cantner)  
Dissertation: *Linked Markets: Innovation, the Dynamics of Industries and General Purpose Technologies*. (Grade: *Summa cum laude*).  
Doctoral Committee: Proffs. Uwe Cantner (University of Jena), Giovanni Dosi (Sant’Anna School of Advanced Studies, Pisa), Francisco Fatas–Villafranca (University of Zaragoza)

### University of Florence

- 2010 MA in Advanced Development Economics  
2008 BA in Economic Development and International Cooperation

## Publications (OA=Open Access)

### JOURNAL ARTICLES

- 2023 [Artificial Intelligence’s New Clothes? A System Technology Perspective](#) (with E. Prytkova), *Journal of Information Technology*. Earlier version as [SPRU Working Paper](#)
- 2023 [\[OA\] Invention in Times of Global Challenges: A Text-Based Study of Remote Sensing and Global Public Goods](#) (with I. Ott), *Economies*. 2023; 11(8):207.
- 2023 [\[OA\] Peer Effects in Productivity and Differential Growth: A Global Value-Chain Perspective](#) (with P. Mundt, I. Savin, H. Inoue, U. Cantner), *Industrial and Corporate Change*, Advance articles.
- 2022 [\[OA\] Understanding emerging patterns and dynamics through the lenses of the cyber–physical universe](#) (with M. Lombardi), *Patterns*, Volume 3, Issue 11, 100601, November 11, 2022.
- 2022 [The Design of Digital Automation Technologies: Implications for the Future of Work](#) (with M. Savona, E. Steinmueller, T. Ciarli), *CESifo EconPol Forum* 23 (5), 4–10.
- 2022 [On the Basis of Brain: Neural–Network–Inspired Changes in General Purpose Chips](#) (with E. Prytkova), *Industrial and Corporate Change*, Volume 31, Issue 4, August 2022, Pages 1031–1055. [SPRU Working Paper Series version](#). *The paper received a special mention at the 2019 EMAEE Conference*. [Media coverage](#): [AgendaDigitale.eu \(IT\) Il futuro dei semiconduttori passa per i platform chips: gli scenari possibili](#)
- 2021 [Pervasive Technologies and Industrial Linkages: Modeling Acquired Purposes](#) (with U. Cantner), *Structural Change and Economic Dynamics*, Volume 56, March 2021, Pages 386–399. (Available online since 8 November 2017).
- 2020 [Short- and Long-run Effects of External Interventions on Trust](#) (with I. Asanov), *Review of Behavioral Economics*: Vol. 7: No. 2, pp 159–195
- 2019 [\[OA\] A systemic perspective on socioeconomic transformation in the digital age](#) (with R. Strohmaier and M. Schuetz), *J. Ind. Bus. Econ.*, Volume 46, Issue 3, pp 361–378.
- 2019 [Replicator dynamics in value chains: explaining some puzzles of market selection](#) (with U. Cantner and I. Savin), *Industrial and Corporate Change*, Volume 28, Issue 3, June 2019, Pages 589–611.
- 2018 [Elements of a Schumpeterian Catalytic Research and Innovation Policy](#) (with U. Cantner), *Industrial and Corporate Change*, Volume 27, Issue 5, 1 October 2018, Pages 833–850.
- 2016 [\[OA\] Conventional Direction to Unconventional Measures: Using Quantitative Easing to shape Eurozone Fiscal Capacity](#) (with O. Fontana), *Perspectives on Federalism*, Vol. 8, issue 2.
- 2015 [The Rate, Direction and Timing of European Industrial Policy: a Few Proposals](#), Research Paper, Center for Studies on Federalism.

## BOOKS AND CONTRIBUTION TO BOOKS

- 2023 Handbook of Research Methods and Applications in Industrial Dynamics and Evolutionary Economics (ed. with U. Cantner and M. Guerzoni), Edward Elgar, forthcoming, 2023.
- 2022 Tools and concepts for understanding disruptive technological change after Schumpeter (with M. Knell), Chapter 4 of *The Routledge Handbook of Smart Technologies. An Economic and Social Perspective* (eds. H.D. Kurz, M. Schuetz, R. Strohmaier, S. Zillian), Routledge. Jena Economic Research Paper version.
- 2017 [Innovation and lock-in](#) (with U. Cantner), in Bathelt H., Cohendet P., Henn S., and Simon L., *The Elgar Companion to Innovation and Knowledge Creation*, Edward Elgar: Cheltenham, Northampton (MA).
- 2016 L'Europa e le Politiche Industriali (with P.V. Dastoli), in Onida F. and Viesti G., *Una nuova politica industriale in Italia. Investimenti, innovazione, trasferimento tecnologico*, Passigli Editore, 2016.
- 2015 Desirable Effects of a European Plan for Sustainable Development, in Bordino G., *A New Right for Democracy and Development in Europe*, Peter Lang.
- 2014 [Il Governo di un'Economia Federale Sovranazionale e le sue Istituzioni nell'Esperienza Europea – Antologia di Contributi](#) (eds. with Domenico Moro), CEDAM, Padova.
- 2012 [A New View of General Purpose Technologies](#) (with Uwe Cantner), in Adolf Wagner, Ullrich Heilemann (Eds.), *Empirische Makroökonomik und mehr: Festschrift zum 80. Geburtstag von Karl Heinrich Oppenländer* (pp. 71–96). Berlin, Boston: De Gruyter.
- 2010 [Europa 2.0. Prospettive ed Evoluzioni del Sogno Europeo](#) (eds. with Nicola Vallinoto), Ombre Corte, Verona.

## WORKING PAPERS

- [Robot Adoption and Innovative Activity](#) (with D. Antonioli, A. Marzucchi, F. Rentocchini), Munich Papers in Political Economy
- [Taking Stock of the Effects of Technological Change on Labour Markets: A Systematic Literature Review](#) (with T. Ciarli, T. Portaluri, M. Savona, and E. Steinmueller). Deliverable D1.1. of the Horizon 2020 PILLARS Project
- [Teaming up with large R&D investors – Good or Bad for Knowledge Production and Diffusion?](#) (with S. Amoroso), SPRU Working Paper Series – [Media coverage](#): Research Professional.
- [The Compositional Nature of Productivity and Innovation Slowdown](#) (with U. Cantner, H. Graf, and E. Prytkova), Jena Economic Research Papers.
- [Generalizing General Purpose Technologies.](#)

## COMMENTARIES AND OTHER

- 2023 [ChatGPT and Generative AI, between Farce and Tragedy](#), GREDEG Blog, March 2023. Shortened version published on [Digit Blog](#), May 2023.
- 2022 [Opportunities for S&T leaders in the current global landscape – insights from ‘model thinking’](#), Cover Story, KIRD Newsletter Vol. 03, November 2022.
- 2021 [Interview: Humans of AI3SD: Simone Vannuccini](#), in Pauli, Michelle and Vannuccini, Simone, Kanza, Samantha, Frey, Jeremy G. and Niranjana, Mahesan (eds.) (2021) *Humans of AI3SD*, University of Southampton.
- 2021 (IT) [IA, il confine tra policy tecnologiche e industriali: per lo sviluppo serve una nuova visione](#), *AgendaDigitale.eu*, 14 September 2021.
- 2021 (IT) [Perché passa dai chip la nuova politica industriale mondiale](#), *AgendaDigitale.eu*, 5 May 2021.
- 2016 (IT) [Combinare Quantitative Easing e Piano Juncker per uscire dalla crisi](#) (with O. Fontana), Comment n.80 – Center for Studies on Federalism, 9 June 2016.
- 2013 In Memory of Albert Hirschman, *The Federalist Debate*, n.2/2013.

## Teaching

### COURSES/MODULES TAUGHT

#### Université Côte d'Azur

2023 Artificial Intelligence and Societal Transformations (MSc course), Winter term.

#### Science Policy Research Unit (SPRU), University of Sussex Business School

2022 Convenor of 'Industrial Dynamics' (UG Module), **1 edition**.

2020–2022 Convenor of 'Digital Transformations and Innovation' (PG Module), **4 editions**.

2020–22 Convenor of 'Artificial Intelligence and Policies for Technological Revolutions' (PG Module), **3 editions**.

2021–22 Convenor of 'Industrial and Innovation Policy' (PG Module), **2 edition**.

2020–22 Module Lead for 'Science, Technology and Innovation' (Online Distance Learning PG Module), **2 edition**.

2018–2022 Convenor of 'Perspectives, Methods and Skills' (PG Module), **5 editions**.

2019–2022 Convenor of 'Innovation Systems' (UG Module), **4 editions**.

2019–2022 Module Lead for 'Quantitative Methods for Energy Policy' (Online Distance Learning PG Module) **3 edition**.

2018–2020 Convenor of 'Economics of Innovation' stream of the Module 'Advanced Economic Topics' (UG Module), **3 editions**.

#### Imperial College Business School

2019–2022 Module Leader, 'Economics and Strategy for Innovation', MSc Economics and Strategy for Business, **3 editions**.

#### Gran Sasso Science Institute

2021 Multidisciplinary Doctoral block course on 'the Economics of AI', 6–8 May.

#### Friedrich Schiller University Jena

2020 Economics of Innovation II – Industrial Dynamics and Evolution (MSc course), Summer Term, Adjunct Professor.

2020 Economics of Innovation III – Structural Change and Economic Dynamics (MSc course), Winter Term, Adjunct Professor.

2019 Economics of Digitalisation, 13th Jena Doctoral Summer Academy

2019 Economics of Innovation II – Industrial Dynamics and Evolution (MSc course), Summer Term, Adjunct Professor.

2013–2018 Economics of Innovation I – Innovation Decisions (MSc course), **5 editions**, Winter Term (term 2014–15 excluded), Lecturer.

2013–2018 Economics of Innovation II – Industrial Dynamics and Evolution (MSc course), **5 editions**, Summer Term, Lecturer.

2012–2018 Economics of Innovation III – Structural Change and Economic Dynamics (MSc course), **6 editions**, Winter Term, Lecturer.

2017 Productivity and Efficiency Measurement (MSc course), Summer Term, TA.

2015 Industries Linked Payoffs and General Purpose Technologies (PhD level block course at the Ninth Jena Summer Academy on Innovation and Uncertainty).

#### University of Insubria, Varese

AY 2018–19 Seminar in Innovation Economics II (MSc course).

AY 2017–18 Seminar in Innovation Economics I (MSc course).

AY 2016–17 Economics of Innovation 1 – Visiting Professor (MSc course).

AY 2015–16 Economics of Innovation 2 – Visiting Professor (MSc course).

AY 2014–15 Economics of Innovation 2 – Visiting Professor (MSc course).

## Collegio Carlo Alberto, Turin – Master MaDaS

AY 2017–18

Economics of Complex Systems (MSc course).

### Guest Lectures

- 2023 Karlsruhe Institute of Technology, Chair of Economic Policy (Economics of General Purpose Technologies)
- 2022 Ajou University, South Korea • Master iMPA, UP de Madrid • Karlsruhe Institute of Technology, Chair of Economic Policy (Economics of General Purpose Technologies) • University of Bergamo (Economics of Digitalisation)
- 2021 Karlsruhe Institute of Technology, Chair of Economic Policy (Economics of General Purpose Technologies)
- 2020 Karlsruhe Institute of Technology, Chair of Economic Policy (Economics of General Purpose Technologies)

### THESES SUPERVISION

#### Science Policy Research Unit (SPRU), University of Sussex Business School

2018–2022

Master Dissertations: 28; MBA Dissertation: 3.

#### Friedrich Schiller University Jena

2014–2018

Master Theses: 105.

## Conferences, Lectures & Talks

My **TEDxFSU Jena** talk: [Monsters and Technologies](#) (February 2015).

### KEYNOTES & INVITED TALKS

- 2023 \*Keynote “*The Human Use of Human Beings*” AI edition: *How AI can Improve or Worsen the Conditions of Labour in Supply Chains*, Slave-Free Alliance Members’ Conference, London (UK), 27 September
- 2023 Keynote *Artificial intelligence from an innovation system perspective*, DFG Network ‘The Dynamics of Innovation Systems: Perspectives, Influences and Operationalization’, TU Braunschweig (DE), 2 June
- 2023 Keynote *Understanding and governing Artificial Intelligence in the Cyber–physical Universe*, CINGAI Forum 2023, 7th World Intelligence Congress, Tianjin (CN), 18 May

### CONFERENCE & SEMINAR PRESENTATIONS

- 2023 CORA 2023, Goethe University Frankfurt • Eu-SPRI Conference 2023, Brighton • CCC Doctoral Conference, St Gallen • UNU–MERIT, Maastricht
- 2022 TPRI, Boston University • AIGLe Workshop, University Paris Saclay • SIEPI (Italian Society of Industrial Economists) Conference 2022, University of L’Aquila • [AI4SD Conference 2022, Session Chair](#) • Technology and Innovation Management Chair, ETH Zurich
- 2021 University of Sussex, Economics Department • University of Kassel • WIIW/FIW Vienna ([Link to YouTube recording](#)) • 18th International Schumpeter Society (ISS) Conference, LUISS, Rome • Munich Summer Institute (LMU/TUM/MPI/ETH) • University of Insubria • 17th ENEF Workshop, University of Bergamo • Eindhoven University of Technology.
- 2020 Directed Assembly Network and AI3SD Network+, University of Southampton ([Link to YouTube recording](#)) • AI3SD Network+ Summer Seminar Series, University of Southampton ([Link to YouTube recording](#))
- 2019 KIT Workshop Economics and Finance, Karlsruhe • ReshapingWork Conference, Vrije University Amsterdam • Beta, University of Strasbourg • Invited lecture at SPRU Residential Training on ‘Governance of Artificial Intelligence’ • YSI–INET, Brighton • EMAEE2019, University of Sussex • University of Insubria, Varese • OLKC Conference 2019, University of Sussex.

- 2018 Future of Work Workshop, UK Cabinet Office OGP • ASSET Conference, University of Florence • University of Ferrara • 15th ENEF Workshop, University of Sussex Business School • 17th International Schumpeter Society (ISS) Conference, Seoul • Munich Summer Institute • University of Sussex • UNU-MERIT, Maastricht.
- 2017 BRICK, Collegio Carlo Alberto, Turin • University of Insubria, Varese • CONCORDi2017, JRC Sevilla • EMAEE2017, University of Strasbourg • 5th KIT-BETA Workshop, Universities of Karlsruhe and Strasbourg • CGDE Workshop, Jena • IMT School for Advanced Studies Lucca • Sant’Anna School of Advanced Studies, Pisa, Institute of Economics.
- 2016 University of Illinois at Urbana–Champaign, IL • SPRU, University of Sussex • University of Insubria, Varese • 16th International Schumpeter Society (ISS) Conference, Montréal • University of Florence • University of Verona – Vicenza Campus.
- 2015 Conference ‘What budget, resources, fiscal and borrowing powers for the EU?’, University of Florence • Conference ‘Governance of a Complex World’, CNRS–Gredeg and University of Nice Sophia Antipolis, Nice • DRUID Conference 2015, Luiss Business School • EMAEE2015, UNU-MERIT, Maastricht • Sant’Anna School of Advanced Studies, Institute of Economics.
- 2014 Workshop Explaining Economic Change, University La Sapienza, Rome and Accademia Nazionale dei Lincei • Universidad Loyola Andalucía • University of Insubria, Varese.
- 2013 1st Doctoral Workshop in Economics of Innovation, Complexity and Knowledge, BRICK University of Torino • 25th EAEPE Annual Conference, Université Paris Nord 13 • University of Southern Denmark, Odense • Seventh Jena Summer Academy on Innovation and Uncertainty, FSU Jena and Max Planck Institute of Economics • 35th DRUID Conference, ESADE, Barcelona.
- 2012 Sixth Jena Summer Academy on Innovation and Uncertainty, FSU Jena and Max Planck Institute of Economics • 14th International Schumpeter Society (ISS) Conference, Brisbane, QLD
- 2011 DIMETIC Final session ‘Modeling, Geography of Innovation and Growth, Policy’, UNU-MERIT, Maastricht • Fifth Jena Summer Academy on Innovation and Uncertainty, FSU Jena and Max Planck Institute of Economics.
- 2010 First ESSA Summer School in social simulation, University of Brescia.

#### CONFERENCES EVENTS ORGANIZED

- 2022 Workshop *Discovering AI-Driven Discovery – Artificial Intelligence and Novelty Generation*, Sussex Humanities Lab and SPRU, 18 January 2022.
- 2020 *Eu-SPRI Mini Course – Technology, Policy and Pathways to Possible Worlds: Imagining Year 2050 Now*, online event, 03/12/2020.
- 2019 *The Economics, Governance and Management of AI, Robotisation, and Digital Transformations*, European Meeting on Applied Evolutionary Economics (EMAEE), SPRU and University of Sussex Business School, Brighton, June 3–6 2019.
- 2019 Thematic track *Deep changes at firm, market and economy-wide level in the era of digitalization and automation* within the International Organisational Learning, Knowledge and Capabilities Conference (OLKC) 2019 ‘The Human Side of Innovation’, Brighton, April 24–26 2019.
- 2018 *Firm Automation in the Era of Artificial Intelligence: The Future of Organisation, Employment, and Productivity*, 15th European Network on the Economics of the Firm (ENEF) meeting, SPRU and University of Sussex Business School, Brighton, September 13–14 2018.
- 2015 *A New Industrial Policy for the European Union*, Turin, 8 May 2015, organized in collaboration with the Center for Studies on Federalism (CSF), Turin, and the European Policy Centre (EPC), Brussels.
- 2014 *Foundations of Economic Change – Behavior, Interaction and Aggregate Outcomes*, 15th Conference of the International Joseph A. Schumpeter Society (ISS), Jena, July 27–30 2014.

## Referee Service

- 2017–Current Editorial Board, Journal of Evolutionary Economics.
- 2021–Current Advisory Editor, Research Policy.
- 2019 Grant applications referee for UK Economic and Social Research Council

Referee for: Industrial and Corporate Change • Industry & Innovation • Journal of Evolutionary Economics • Journal of Economics Surveys • Research Policy • Review of Social Economy • Small Business Economics, Technological Forecasting and Social Change • Eurasian Business Review.

## Other Activities

2021–2022	Director, Future of Work Hub, University of Sussex Business School.
2019–2022	Co–Lead, Artificial Intelligence Research Mobilisation Group, University of Sussex Business School.
2019–2022	Convenor of the Freeman Seminars, SPRU, University of Sussex.
2020–2022	Associate member, Sussex Humanities Lab, University of Sussex.
2013–Current	Member of the General Assembly of the International Schumpeter Society.
2012–2013	Doctoral students representative in the Board of the Jena Graduate Academy.