

# Curriculum Vitae

## **Ivan Savin**

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### **Research interests:**

- Economics of Innovation
- Economics of Complexity
- Evolutionary Optimization Methods

### **Academic Positions**

- 05/15 - Present Postdoc, Chair of Economic Policy, **Karlsruhe Institute of Technology** (KIT), Germany and **Bureau d'Economie Théorique et Appliquée** (BETA), France
- 10/13 - Present Visiting Lecturer at the **Graduate School of Economics and Management, Ural Federal University**, Yekaterinburg, Russia
- 04/13 – 04/15 Postdoc, Chair of Microeconomics, **Friedrich Schiller University of Jena**, Germany
- 07/11 – 04/15 Postdoc, **Graduate School "Economics of Innovative Change"** (GSBC EIC), Friedrich Schiller University of Jena and Max Planck Institute of Economics, Germany
- 10/09 - 02/11 Teaching assistant at the chair of statistics and econometrics, **Justus Liebig University of Giessen**, Germany

### **Education**

- 10/08 - 08/11 **PhD at the Justus Liebig University in Giessen**  
Chair of statistics and econometrics (Prof. Dr. Peter Winker) Dissertation title 'Russia's comparative advantages in foreign trade: forecasting potential dynamics and identifying stimulation measures', Summa Cum Laude
- 09/03 - 07/08 **International economics (Honours degree based on five-year full-time Diploma at the Ural State University named after A.M. Gorky)**  
Diploma thesis on 'Stimulation of companies' innovative activities as a way of optimizing the industrial structure of Russian foreign trade'
- 09/06 - 08/07 **Study at the University of Passau**  
Courses taken include: international marketing, E- and M-Business, management of innovations, strategic management of information), Average grade 1,3 (excellent)
- 09/93 - 06/03 Secondary education at the School Gymnasia №37 with an in-depth study of languages, particularly German; graduated with silver medal for excellent grades

### **Awards and Scholarships**

- 07/2016 DAAD (German Academic Exchange Service) conference travel grant of 2,000 EUR
- 06/2015 Young Economists Award from Austrian Economic Association, 750 EUR
- 08/2014 Support grant from FSU to obtain third-party funding for junior researchers, 5,300 EUR
- 01/2013 Award for Excellence in Publishing from the Alpen Adria University, 2,000 EUR
- 08/2012 DAAD (German Academic Exchange Service) conference travel grant of 1,000 EUR
- 10/08 - 08/11 DAAD scholarship for PhD study of approximately 40,000 EUR
- 09/06 - 07/07 DAAD ERP scholarship for study at the University of Passau of about 10,000 EUR

## Publications

### **A. Articles in refereed journals**

- 2016 Blueschke D. and I. Savin, No such thing like perfect hammer: comparing different objective function specifications for optimal control, **Central European Journal of Operations Research** (forthcoming)
- 2016 Savin I. and D. Blueschke, Lost in translation: Explicitly solving nonlinear stochastic optimal control problems using the median objective value, **Computational Economics** 48(2), 317-338
- 2016 Savin I. and A. Egbetokun, Emergence of innovation networks from R&D cooperation with endogenous absorptive capacity, **Journal of Economic Dynamics and Control** 64: 82-103
- 2015 Marson M. and I. Savin, Ensuring sustainable access to drinking water in Sub Saharan Africa: Conflict between financial and social objectives, **World Development** 76:26-39
- 2014 Egbetokun A. and I. Savin, Absorptive capacity and innovation: When is it better to cooperate? **Journal of Evolutionary Economics** 24(2):399-420
- 2013 Blueschke D., Blueschke-Nikolaeva V. and I. Savin, New insights into optimal control of nonlinear dynamic econometric models: application of a heuristic approach, **Journal of Economic Dynamics and Control** 37(4): 821-837
- 2013 Savin I., A comparative study of the Lasso-type and heuristic model selection methods, **Journal of Economics and Statistics**, 233(4): 526-549
- 2012 Savin I. and P. Winker, Heuristic model selection for leading indicators in Russia and Germany, **Journal of Business Cycle Measurement and Analysis** 2012/2
- 2012 Savin I. and P. Winker, Heuristic optimization methods for dynamic panel data model selection. Application on the Russian innovative performance, **Computational Economics**, 39(4): 337-363
- 2009 Savin I. and P. Winker, Forecasting Russian foreign trade comparative advantages in the context of a potential WTO accession, **Central European Journal of Economic Modelling and Econometrics** 1(2): 111-138

### **B. Books and book chapters**

- 2015 Egbetokun A. and I. Savin Absorptive capacity and innovation: When is it better to cooperate? pp. 373-399 In: A. Pyka and J. Foster (eds) *The Evolution of Economic and Innovation Systems*, Springer, Berlin, Heidelberg
- 2013 Savin I., *Russia's Comparative Advantages in Foreign Trade: Forecasting Potential Dynamics and Identifying Stimulation Measures*, Schriften zur empirischen Wirtschaftsforschung Band 21, Peter Lang Verlag, Frankfurt am Main (PhD th)
- 2013 Savin I. and P. Winker, Lasso-type and heuristic strategies in model selection and forecasting, pages 165-176 In: Borgelt C., M.A. Gil, J. Sousa and M. Verleysen (Eds.) *Towards Advanced Data Analysis by Combining Soft Computing and Statistics*, Springer, Berlin

### C. Working papers

- 2016 Herrmann J.K. and I. Savin, **Optimal Policy Identification: Insights from the German Electricity Market**, Working Papers of BETA 2016-16
- 2016 Cantner U., Savin I. and S. Vannuccini, **Replicator dynamics in value chains: Explaining some puzzles of market selection** KIT Working Paper Series in Economics Nr. 83
- 2015 Blueschke D. , Blueschke-Nikolaeva V. and I. Savin, **Slow and steady wins the race: approximating Nash equilibria in nonlinear quadratic tracking games** Jena Economic Research Papers 2015 – 011
- 2015 d'Andria D. and I. Savin, **Motivating innovation in a knowledge economy with tax incentives** Jena Economic Research Papers 2015 – 004
- 2014 Cantner U. and I. Savin, **Do Firms Benefit from Complementarity Effect in R&D and What Drives their R&D Strategy Choices?** Jena Economic Research Papers 2014 – 023
- 2011 Brandt J., Meckl J. and I. Savin, **Factor-biased technical change and specialization patterns**, MAGKS Joint Discussion Paper Series in Economics 18-2011

### D. Work in Progress

Korzinov V. and I. Savin, **Pervasive enough? Technology network and its emerging properties**

Blueschke D. , Blueschke-Nikolaeva V. and I. Savin, **Modelling oil price shock for the Russian economy: an optimal control exercise**

Savin I., Mariev O. and A. Pushkarev, **Productivity, market selection and corporate growth: Evidence from Russia**

Savin I., Mariev O., Gladyshev D. and P. Kuznetsov, **Exports and productivity selection effects for Russian firms**

### Presentations

- Conferences **2016:** Schumpeter Society Conference (**ISS**) in Montreal; European Conference on Operational Research (**EURO**) in Poznan; Computing in Economics and Finance (**CEF**) in Bordeaux;
- 2015:** Regional Innovation Policies (**RIP**) Conference in Karlsruhe; Congress of the German Economic Society (**VfS**) in Muenster; European Meeting on Applied Evolutionary Economics (**EAMEE**) in Maastricht;
- 2014:** Schumpeter Society (**ISS**) Conference in Jena;
- 2013:** Conference on System Modelling and Optimization (**IFIP TC 7**) in Klagenfurt; Computing in Economics and Finance (**CEF**) in Vancouver; Congress of the European Economic Association (**EEA**) in Gothenburg;
- 2012:** Computational Statistics (**COMPSTAT**) in Limassol; Schumpeter Society Conference (**ISS**) in Brisbane; Computational Management Science (**CMS**) in London;
- 2011:** Computational and Financial Econometrics (**CFE**) in London; European Meeting of the Econometric Society (**ESEM**) in Oslo;
- 2010:** Computational and Financial Econometrics (**CFE**) in London; Annual Congress of the German Economic Society (**VfS**) in Kiel; Congress of the European Economic Association (**EEA**) in Glasgow; Computational Management Science (**CMS**) in Vienna;
- 2009:** Macromodels Conference in Bochnia; Computational and Financial Econometrics (**CFE**) in Limassol

Invited Seminars  
**2016:** ETH Zurich; Friedrich Schiller University, Jena; University of Klagenfurt;  
**2015:** Sant'Anna School of Advanced Studies, Pisa; 1st EAEPE – RA[X] Workshop, Essen;  
**2014:** SKEMA Business School, Nice; University of Turin; Bocconi University, Milan;  
**2013:** Sant'Anna School of Advanced Studies, Pisa; Solvay Brussels School of Economics and Management.

### **Teaching Experience**

#### **Graduate level**

Summer 16 MA course "Innovation theory and politics", KIT Karlsruhe, in German  
 Winter 15/16 PhD course "Evolutionary Optimizations Methods", BETA, France, in English; Seminar in Economic Policy, KIT Karlsruhe, in English  
 Summer 15 MA course "Methods in Economic Dynamics", KIT Karlsruhe, in English  
 Winter 14/15 MA course "Economics of Innovation I" and Seminar "Economics of Innovation", FSU Jena, in English; PhD course 'Monte Carlo simulation methods' at the GSEM UrFU (Yekaterinburg), in Russian  
 Summer 14 PhD course 'Monte Carlo simulation methods' at the University of Insubria in English; and MA course 'Economics of Innovation' at the University of Tbilisi, in German  
 Winter 13/14 PhD course 'Monte Carlo simulation methods' at the GSEM UrFU, in Russian; MA course 'Advanced Microeconomics', FSU Jena, in English  
 Summer 13 PhD course 'Monte Carlo simulation methods' at the FSU Jena and the University of Insubria (Varese, Italy), both in English  
 Summer 12 PhD course 'Monte Carlo simulation methods' and seminar for PhD students 'Introduction to LaTeX', FSU Jena, both in English  
 Winter 11/12 Seminar 'Presenting Science' for PhD students, FSU Jena, in English  
 Summer 10 - winter 10/11 Econometrics I & II exercise classes for MA students, chair of statistics and econometrics, JLU Giessen, in English and German

#### **Undergraduate level**

Summer 09 - winter 09/10 Statistics I & II exercise classes (in English and German), chair of statistics and econometrics, JLU Giessen

#### **Student supervision**

Winter 15/16 Supervisor of MA students for the seminar "Economic Policy", KIT Karlsruhe  
 Winter 14/15 Supervisor of MA students for the seminar "Economics of Innovation", FSU Jena  
 Winter 11 - Summer 15 Supervision of PhD students ( $\approx 10$  per term) at the GSBC EIC as a second advisor (first advisor – Prof. Dr. Uwe Cantner), FSU Jena  
 Summer 09 Supervisor of MA students for the seminar "Human Capital and Growth", JLU Giessen

### **Service to the Discipline**

2015-Present **Coordinator of the series of KIT-BETA** workshops (three times per year) to be held interchangeably at BETA Strasbourg or KIT Karlsruhe  
 2015 **Doctoral Day** for the 10th International **Regional Innovation Policies Conference** in Strasbourg (co-organizer)  
 2014 **The 15<sup>th</sup> International J. A. Schumpeter Society Conference** in Jena (co-organizer)

**Editorial**  
Referee Journal of Economics and Statistics (x2), Journal of Evolutionary Economics (x2), Journal of Economic Dynamics and Control, Regional Studies, Review of Industrial Organization, Journal of Economic Interaction and Coordination, Computational Economics, Journal of Business Cycle Measurement and Analysis, Journal of Artificial Societies and Social Simulation, Journal of Innovation Economics and Management

### **Memberships**

Present German Network on New Economic Dynamics , Society for Computational Economics  
08/12-04/15 Elected postdoc representative of the Board of the Jena Graduate Academy  
09/09-12/12 Junior member of the EU funded research network "COST Action IC0702 - Combining Soft Computing Techniques and Statistical Methods to improve Data Analysis Solutions", <http://www.cost-ic0702.org/objective.html>  
10/08-12/10 Member of the EU funded Marie Curie research and training network "Computational Optimization Methods in Statistics, Econometrics and Finance (COMISEF)", <http://comisef.wikidot.com/>

### **Media Coverage**

2016 D. Blueschke and I. Savin „Nullzinspolitik der EZB: Wenn "einer für alle" und "jeder gegen jeden" übereinstimmen“, **Ökonomenstimme**, July 6, 2016, available at <http://www.oekonomenstimme.org/artikel/2016/07/nullzinspolitik-der-ezb-wenn-einer-fuer-alle-und-jeder-gegen-jeden-uebereinstimmen/>  
2015 Savin I. (2015, February 10). Management of networking in creating new knowledge | Ivan Savin | **TEDxFSUJena** [Video file]. Retrieved from <https://www.youtube.com/watch?v=kvoNSil41DU>

### **Training and Qualifications**

**Language skills** Russian: native  
German: fluent  
English: fluent  
Spanish: intermediate  
Italian: basics  
French: basics

**Technical skills** Excellent knowledge of MS Office, LaTeX, R, MatLab  
Good knowledge of Eviews, Stata, Pascal, Datastream, Octave, UCINET  
Basic knowledge of GTAP, HTML, Delphi, MAXQDA, Gauss, Maple, C++

### **Activities**

**Hobbies** Photography, swimming, collecting coins, chess

July 14th, 2016

## **References:**

Prof. Dr. Ingrid Ott, Chair in Economic Policy, Karlsruhe Institute of Technology, Germany, and Kiel Institute for the World Economy (IfW), Germany

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Prof. Dr. Robin Cowan, Professor of Economics at the Bureau d'Economie Theorique et Appliquée (BETA), at the Université de Strasbourg, and Professor of Economics of Technical Change at the Maastricht Economic and Social Research Institute on Innovation and Technology, UNU-MERIT, at the University of Maastricht

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Prof. Dr. Uwe Cantner, Department of Economics, Friedrich Schiller University, Jena, Germany, and University of Southern Denmark/Odense, Denmark

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webpage: <http://www.microtheory.uni-jena.de/team/members/cantner/>

Prof. Dr. Peter Winker, Department of Economics, University of Giessen, Germany, and Centre for European Economic Research (ZEW), Mannheim, Germany

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webpage: <http://wiwi.uni-giessen.de/home/oekonometrie>

o.Univ.-Prof. Dr. Reinhard Neck, Department of Economics, University of Klagenfurt, Austria

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