

Sebastian (I.S.) Buhai, PhD

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Full name: Ioan Sebastian Buhai

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Education

- Ph.D. in Economics, 2008, Tinbergen Institute¹ and Erasmus University Rotterdam; Amsterdam and Rotterdam, NL
 - Title: “Essays on Labour Markets”
 - Committee: Coen Teulings (supervisor), Gerard van den Berg, Maarten Janssen, Jean Marc Robin (inner committee); Robert Dur, Otto Swank (further members plenary committee)
- M.Phil. in Economics, 2003, Tinbergen Institute; Amsterdam and Rotterdam, NL
- B.Sc. in Sciences (Mathematics/ Theoretical Physics), 2001, University College Utrecht, Utrecht University; NL
- B.A. in Social Sciences (Economics/ Law/ Political Science), 2001, University College Utrecht, Utrecht University; NL
- High-School Baccalaureate Diploma, 1998, Computer Science High-School “Tiberiu Popoviciu”; Cluj-Napoca, RO

Other postgraduate degrees

- Diploma of the Netherlands Network of Economics (NAKE), 2004; NL

Current Academic Employment and/or Affiliations

- 05/2010- : Marie Curie Postdoctoral Fellow on a 3-year independent *International Outgoing Fellowship (IOF)*, awarded by the EU’s European Commission, at the Department of Economics, Northwestern University (“Outgoing host”, first 2 yrs; Dale Mortensen scientific guide), and Department of Economics and Business, Business and Social Sciences, Aarhus University (“EU host”, 3rd year; Michael Rosholm scientific guide); Chicago, US, and Aarhus, DK
- 12/2007-: Research associate, “Labour Market Dynamics and Growth” center, based at Department of Economics and Business, Business and Social Sciences, Aarhus University; Aarhus, DK
- 10/2005-: Member, “Center for Corporate Performance”, based at Department of Economics and Business, Business and Social Sciences, Aarhus University; Aarhus, DK

Past Academic Employment and/or Affiliations

- 04/2008-04/2010: Postdoctoral Fellow on a 2-year independent grant awarded by the Danish Council for Independent Research- Social Sciences (“Forknisngsrådet for Samfund og Erhverv” =FSE), at the Department of Economics, Aarhus School of Business, Aarhus University; Aarhus, DK
- 02/2009-04/2009: Visiting Researcher, Department of Economics, Free University Amsterdam (VU), invitation by Gerard van den Berg; Amsterdam, NL

¹ *Tinbergen Institute* is the institute for research and graduate studies in Economics of the University of Amsterdam (UvA), Free University Amsterdam (VU), and Erasmus University Rotterdam (EUR). See more information at www.tinbergen.nl.

- 09/2002-11/2008: Ph.D. candidate (“Promovendus”), Department of Economics at the Erasmus School of Economics, Erasmus University Rotterdam, and the Tinbergen Institute; advisor Coen Teulings; Ph.D. public defense on 27-11-2008; Amsterdam and Rotterdam, NL
- 10/2005- 03/2008: Research Assistant, Department of Economics and Center for Corporate Performance, Aarhus School of Business, Aarhus University, on a project lead by Niels Westergaard-Nielsen; Aarhus, DK
- 09/2002-09/2005: Research Assistant (“Assistent in Opleiding”=AIO), Department of Economics at the Erasmus School of Economics, Erasmus University Rotterdam and the Tinbergen Institute; Amsterdam and Rotterdam, NL
- spring 2005: Visiting Scholar, Dep. of Economics, University College London, advisor Richard Blundell; London, UK
- 01/2001- 09/2002: Junior Research Assistant (part-time) for Ronald Schettkat, Dep. of Economics and Policy, Utrecht University; Utrecht, NL

Main Research Interests

Labor Economics, Microeconometrics, Real Options, Personnel Economics, Economics of Education, Social Networks, Empirical Industrial Organization

Publications and Research in Progress

For the latest downloadable drafts, plus titles/ abstracts of other projects in progress: <http://www.sebastianbuhai.com/papers>

Research papers

- Buhai, I.S., M. Portela, C.N. Teulings and A. van Vuuren (latest update: Jan 2012), “Returns to Tenure or Seniority?”, older versions as TI DP 08-010/3, IZA DP 3302; current stage: 2nd revise and resubmit request at *Econometrica*
- Buhai, I.S. and C.N. Teulings (latest update: July 2011), “Tenure Profiles and Efficient Separation in a Stochastic Productivity Model”, older versions as TI DP 05-099/3 (revised Oct 06), IZA DP 1997; current stage: revise and resubmit request at *Journal of Business and Economic Statistics*
- Buhai, I.S. and H.M. von Gaudecker (2012), “Firm downsizing, public policy, and the age structure of employment adjustments”; current stage: discussion paper
- Buhai, I.S. and M.J. van der Leij (latest update: December 2010), “A Social Network Analysis of Occupational Segregation”, older version as TI DP 06-016/1; current stage: in revision, updated version available soon
- Buhai, I.S., E. Cottini and N. Westergaard-Nielsen (2008), “The Impact of Workplace Conditions on Firm Performance”, ASB WP 08-13; current stage: in revision, updated version available soon

Published dissertations and scientific reports

- Buhai, I.S. (2008), “Essays on Labour Markets: Worker-Firm Dynamics, Occupational Segregation and Workplace Conditions”, Ph.D. dissertation Nov 2008 (advisor: Prof. Coen Teulings), *Thela Thesis – Academic Publishing Services*, Amsterdam, The Netherlands
- Buhai, I.S. (2006), “Wages, Seniority and Separation Rates in a Stochastic Productivity Model: A Comparative Perspective”, M.Phil dissertation May 2003 (advisor: Prof. Coen Teulings), Tinbergen Institute and Erasmus University Rotterdam, published as monograph at the *Lumen Publishing House*, Iasi, Romania
- Buhai, I.S. (2005), “Quantile Regression: Overview and Selected Applications”, *Ad-Astra -The Young Romanian Scientists’ Journal*, Vol 4
- Buhai, I.S. (2003), “Note on Panel Data Econometrics”, *Netherlands Networks of Economics (NAKE) “Nieuws”*, vol. 15(2)

Publications and dissertations in other disciplines than Economics

- International Law: Buhai, I.S. (2006), “Customary Law Assessment and Applications: Capital Punishment for Juvenile Offenders”, in “New Approaches in Humanistic Sciences”, a volume of selected student papers in social and humanistic sciences, at the Lumen Publishing House, Iasi, Romania, April 2006

- Science Policy: Buhai, I.S. (2004), “Conditia Cercetatorului: Intre Realitatea de Acasa si Idealul din Afara” (in Romanian), *Ad-Astra- The Young Romanian Scientists Journal (online)*, Vol. 3 (2)
- Theoretical Physics: Buhai, I.S (2001), “Classical Solutions to Double Oscillator Field Theory”, unpublished B.Sc. Honors thesis, University College Utrecht, May 2001 (thesis advisor: Frank Witte)

Grants and Honors

- 2009: Awarded an individual *Marie Curie International Outgoing Fellowship*, for my project “Searching, Matching, Sorting, and Separating in the Labour Market: Costs, Structure and Consequences of Employment Adjustment in Dynamic Frictional Economies”. The grant is under the FP7 protocol of the EU Commission, to Northwestern University, Chicago, US, for 2 years, with a subsequent return phase of 1 year to Aarhus University, Denmark; value of approx. 260,000 euro; started May 2010
- 2009: Awarded a project research grant (5,000 euro) by Netspar, Tilburg University, The Netherlands, for the research proposal “Business cycles and the age structure of labor adjustments. Structural framework and empirical assessment” (joint with Hans-Martin von Gaudecker)
- 2007: Awarded an individual postdoctoral grant in value of approx. 170,000 euro (2 years; started April ‘08), for my research project “Wages, Productivity and Firm Sizes in Imperfectly Competitive Markets”, by the Danish Council for Independent Research- Social Sciences (“Forknignsrådet for Samfund og Erhverv”=FSE)
- 2005: Featured as one of the promising young (< 35 years old) Romanian scientists, from all research fields and any national or international universities/institutes, within the so-called “Expected Generation” campaign (Romanian: “Generatia Asteptata”) of the national Romanian newspaper “Cotidianul” (the campaign featured also young Romanian talent in other ‘categories’, such as business, politics, arts, sports etc; 200 persons overall, 33 scientists)
- 2005: Grants for academic visits abroad: Netherlands Organization for Scientific Research (NWO) Fellowship for visiting the Dep. of Economics, University College London, UK (spring 2005); Trustfonds of the Erasmus University Rotterdam (VT EUR) Fellowship for short research visits at the Dep. of Economics, Aarhus School of Business, DK (summer/fall 2005)
- 2002- 2005, Summer Schools and Workshops Fellowships: RES Summer School in Econometrics, Oxford, UK (2005); “Villa Mondragone” Workshop in Economic Theory and Econometrics, Rome, IT (2005); IZA Summer School in Labor Economics, Buch/Ammersee, DE (2004); EEA Summer School in Econometrics, UCL & IFS, London, UK (2003); Scuola Matematica Interuniversitaria Summer School, Cortona, IT (2002).
- 2001-2002: Full Scholarship for graduate studies (M.Phil.), Tinbergen Institute, Amsterdam and Rotterdam, NL
- 1998-2001: Full Scholarship for undergraduate studies (B.Sc. and B.A.), University College Utrecht, Utrecht, NL
- 1990- 1998, 2000: Over 30 (Thirty) Prizes and Honorable Mentions in yearly Olympiads and other recognized student academic competitions, at International, National or (Inter-)County levels, in the disciplines: *European Law* (2000), *Mathematics* (1991, 1994-1998); *Computer Science* (including *Programming*, *Network Programming* and *Web-Design* contests: 1992, 1994-1998); *Inorganic Chemistry* (1997); *Romanian Language and Literature* (1993-1994); and *French Language and Literature* (1993-1994, 1997-1998).
- 1996-1998: Selected by (county-level) contest within a privately-sponsored Elite Mathematics Program, specifically targeting student competition training, and consisting of intensive extra-curricular courses taught by professors and lecturers from the “Babes-Bolyai” University and the Polytechnic Institute, Cluj-Napoca, RO; graduation certificate awarded in 1998
- 1986-2001: Distinctions on the formal education tracks: 1998-2001: Graduated with two university Bachelor degrees (B.Sc. and B.A.) obtained simultaneously, and overall GPA of 3.88/4 (Cum Laude; top 10 persons in graduating cohort), in 2001; 1986-1998: National High-School Baccalaureate Diploma graded 9.63/10 (highest in high-school’s graduating cohort), in 1998; 1st, 2nd or 3rd Prize (based on the position in the GPAs ranking within the class) every academic year, 1986 through 1998; High-School’s Honors Diploma for exceptional academic achievement, in 1996; National High-School Entry Examination graded 10/10, in 1994; Gymnasium’s Honors Diploma for exceptional academic achievement throughout 1986-1994, in 1994

Teaching Experience

- “*Industrial Economics*” (co-taught), Fall 2008 / Fall 2009, Aarhus School of Business; master level, large course: approx. 230 master students; example topics: production function estimation; structural estimation of conduct parameters etc.; in Fall 2009 only final exams grading, for half (=approx. 170 students) of the course.
- “*Economics of Strategy*” (co-taught), Fall 2008 / Spring 2010, Aarhus School of Business; master level, large course: approx. 150 master students; example topics taught: vertical boundaries of the firm; incomplete contracts and the property right approach; relational contracts etc.; in Spring 2010 only final exams grading for 1/3 (=approx 85 students) of the course.
- “*Descriptive Economics*” (seminar groups), Fall 2008 to Spring 2009, Aarhus School of Business; bachelor level, instructing & supervising groups of bachelor students in writing, presenting and discussing seminar reports; broad themes: ‘Labour Markets’ and ‘Education’

Conference and Seminar Presentations

Presentations of joint research by my co-authors are starred ()*

- 2012: *University of Wisconsin-Milwaukee*, Milwaukee, US, March; *ASSA meetings- American Economic Association* section, Chicago, US, January
- 2011: *Chicago FED*, Chicago, US, December; *Cornell University*, Ithaca, US, November; (poster) *European Society of Labor Economists (EALE)**, Paphos, CY, September; workshop “Economic analysis using LEED”, *University of Porto*, Porto, PT, June; *Society of Labour Economists (SOLE)*, Vancouver, CA, April; *Northwestern University*, Evanston US, April;
- 2010: *Kellogg School of Management Theory Bag Lunch*, Evanston, US, December; *Center for Corporate Performance Workshop*, Kolding, DK, September; *World Congress Econometric Society*, Shanghai, CN, August; *Society for Economic Dynamics (SED)*, Montreal, CA, July; *Danish Microeconometrics Network meeting*, Skagen, DK, June; *SOLE*, London, UK, June; *LMDG-Frisch Center workshop*, BI Norwegian School of Management, Oslo, NO, April; *Aarhus School of Business*, Aarhus, DK, March; *ASSA meetings- American Economic Association (AEA)* section, Atlanta, US, January
- 2009: *Center for Corporate Performance Workshop on Personnel Economics*, Kolding, DK, December; *Comparative Analysis of Enterprise Data (CAED)*, Tokyo, JP, October; *EALE*, Tallinn, EE, September; *European Economic Association (EEA)**, Barcelona, ES, August; *University of Minho*, Braga, PO, July; *Danish Microeconomic Network Meeting*, U. of Copenhagen, DK, July; *Nordic Summer Institute in Labour Economics*, Bergen, NO, June; *European Society for Population Economics (ESPE)*, Seville, ES, June; *University of Alicante*, ES, May; (poster) *Workshop on Firms and Wages using LEED*, CEU, Budapest, HU, May; (presentation + poster) *SOLE*, Boston, US, May; *Free University Amsterdam* seminar, NL, March; Workshop “Intangible investment and firm performance”, *Imperial College London*, UK, February; *University of California Merced*, US, January; *ASSA meetings- North Winter Econometric Society section*, San Francisco, US, January
- 2008: *Aarhus School of Business**, DK, December; *Harvard University**, Cambridge, US, December; Institute of Fiscal Studies workshop on *Structural Models of the Labor Market and Policy Analysis**, London, UK, November; *EALE*, Amsterdam, NL, September; *Associazione Italiana Economisti del Lavoro* (AIEL)*, Brescia, IT, September; *Econometric Society European Meeting (ESEM)*, Milan, IT, August; *World Congress of the Game Theory Society* (GAMES)*, Evanston (IL), US, July; *SED*, Cambridge, US, July; *Institute of Work Psychology * (IWP)*, Sheffield, UK, June; (presentation+ poster) *CAED*, Budapest, HU, May; *SOLE*, New York, US, May; *Carlson School of Management**, *University of Minnesota*, US, April; *Spring Meeting of Young Economists* (SMYE)*, Lille, FR, April; *Tartu University**, Tartu, EE, February; *Coalition Theory Network* (CTN)* workshop, Venice, IT, January
- 2007: *Center for Corporate Performance (CCP)*, Ebeltoft, DK, November; *Netherlands Network of Economics* (NAKE)* Research Day, Utrecht, NL, October; *Labour Market Dynamic Growth (LMDG)*, Sandbjerg, DK, October; *EALE*, Oslo, NO, September; *ESEM*, Budapest, HU, August; *National Institute of Occupational Health*, Copenhagen, DK, August; (poster) *SOLE*, Chicago, US, May
- 2006: *Conférence on the Analysis of Firms and Employees (CAFÉ)*, Nuremberg, D, September; *EEA*, Vienna, Austria, August; *University of Mannheim*, D, June; *ESPE*, Verona, IT, June; *Aarhus School of Business*, DK, May; *SOLE*, Cambridge, US, May; *CCP*, Aarhus, DK, March
- 2005: *Tinbergen Institute Amsterdam*, NL, December; *University of Chicago**, US, October; *Federal Reserve Bank of Chicago**, US, October; *Northwestern University**, US, October; *EEA*, Amsterdam, NL, August; *ESEM World*

Congress, University College London, UK, August; 5th Villa Mondragone Workshop in Economic Theory and Econometrics, Rome, IT, July; 10th Annual Workshop on Economic Heterogeneous Interacting Agents (WEHIA), University of Essex, UK, June; London School of Economics*, UK, April; SMYE, Geneva, CH, April; Tinbergen Institute Rotterdam*, NL, April; University College London, UK, April;

- 2003-2004: NAKE Research Day, Dutch Central Bank, Amsterdam, NL, October; Applied Microeconometrics Workshop, CAM, University of Copenhagen, DK, May; SOLE, San Antonio, Texas, US, April; SMYE, Warsaw, PL, April; (poster) IZA Summer School in Labor Economics, Buch am Ammersee, D, April; Tinbergen Institute Amsterdam, NL, March; NAKE Research Day, Dutch Central Bank, Amsterdam, NL, October 2003

Summer Schools and External Workshop Courses

For a list of internal courses followed in my graduate programs: http://www.sebastianbuhai.com/list_courses.html

- 2005: August 15-18, Royal Economic Society (RES) Summer School in Econometrics on “Causality” organized by the Nuffield College in Oxford, UK; lecturers: J. Heckman (U. Chicago, US), N. Cartwright (LSE, UK), S. Lauritzen (U. Oxford, UK), D. Cox (U. Oxford, UK), D. Hendry (U. Oxford, UK); June 6-10, 38th Netherlands Network of Economics (NAKE) Workshop in Utrecht, NL; focus on “Distribution in Macroeconomic Models”, lecturer G. Bertola (U. Torino, IT)
- 2004: December 6-10, 37th NAKE Workshop in Maastricht, NL; focus on “Empirical Strategies”, lecturer J. Angrist (MIT, US); June 7-11, 36th NAKE Workshop in Amsterdam, NL; focus on “Modeling and Inference for Cointegrated Vector Autoregressive Time Series”, lecturer S. Johansen (U. Copenhagen, DK); April 9-25, 7th IZA European Summer School in Labor Economics in Buch/Ammersee, DE; lecturers: A. Falk (U. Bonn and IZA, DE): “Behavioral Labor Economics” and C. Belzil (U. Concordia, CA and IZA, DE): “Empirical Labor Market Models with Dynamic Self-Selection”
- 2003: December 8-12, 35th NAKE Workshop in Groningen, NL; focus on “Quantile Regression”, lecturer R. Koenker (U. Illinois, US); September 8-12, XIVth EEA Summer School on Microeconometrics, organized by the Centre for Microdata Methods and Practice, University College London and the Institute for Fiscal Studies, in London, UK; lecturers: J. Wooldridge (U. Michigan State, US), S. Bond (U. Oxford, UK), H. Ichimura (UCL, UK), A. Chesher (UCL, UK) and W. Newey (MIT, US); June 10-13, 34th NAKE Workshop in Rotterdam, NL; focus on “Panel Data Econometrics”, lecturer M. Arellano (CEMFI, ES)
- 2002: December 9-13, 33rd NAKE Workshop in Tilburg, NL; focus on “Incomplete Contracts and the Theory of the Firm”, lecturer P. Bolton (U. Princeton, US); August 18-31, Summer School in Operations Research, organized by the Scuola Matematica Interuniversitaria (SMI), in Cortona, IT; lecturers: M. Labbe (U. Libre de Bruxelles, BE) and H. Wolkowicz (U. Waterloo, CA)

Professional Service

- *Peer review experience* (since 2006, some multiple times): International Economic Review, Labor Economics, Metroeconomica; Routledge Economics, Palgrave MacMillan
- *Invited membership* (since 2008): National Bureau of Economic Research (NBER) Summer Institute, research group on “Micro and Macro Perspectives of the Aggregate Labor Market”, organized every summer by R. Rogerson, R. Shimer, and R. Wright
- *Professional membership* (since 2004): American Economic Association (AEA), Econometric Society (ES), European Economic Association (EEA), Society of Labour Economists (SOLE), European Association of Labour Economists (EALE), European Society for Population Economics (ESPE), Royal Economic Society (RES), Royal Netherlands Economic Association (KVS), American Mathematical Society (AMS), American Association for the Advancement of Science (AAAS)
- *Seminar/conference organization*: 09/ 2003-12/2004, Co-organizer of the weekly Ph.D. Lunch Seminars in Tinbergen Institute Amsterdam; 06/2004, Local organizer of the 36th Netherlands Network of Economics (NAKE) workshop from Amsterdam
- *Management/administrative*: 10/ 2002-11/2004, Elected representative-- Chairman since 2004, Labor Affairs Officer before-- of the Tinbergen Institute Student Council (representing about 150 graduate students in Economics and Econometrics from the Univ. of Amsterdam, Free Univ. of Amsterdam and Erasmus Univ. Rotterdam)

Competence in Languages

- Speak, read, write: *Romanian* (native); *English* (near native); *Dutch, French* (fluent); *Danish* (intermediate); *Italian* (elementary)
- Reading proficiency: *German, Portuguese, Spanish* (fair); *Hungarian* (basic)

Computer Literacy

- *Econometrics, Statistics and Mathematics packages*: Ox, Maple Mathematica, Matlab, SAS, Stata, SPSS, Mathematica
- *Other programming languages*: C/C++, Java, Pascal, SQL, FoxPro, Basic
- *Editors and utilities*: Scientific Workplace, MiKTeX, LyX, MS Office, Corel WordPerfect, Endnote
- *Operating systems*: MS Windows (9x, 2k, NT, ME, XP), Unix (Linux, Solaris), MS-DOS

Miscellaneous

- *Media coverage*: See <http://www.sebastianbuhai.com/pictures/Media>
- *Blogging*: Since 2005, short posts on various topics (main focus on Economics) on my weblog, <http://blog.sebastianbuhai.com>
- *(Scientific) Journalism*: 2006-2008: short contributed articles on Economics, or on topics relevant for science and education in general, for the Romanian national newspapers “Gandul” and “Cotidianul”; 2004- 2005, Collaborator to the online Romanian portal “Romania, Libera in Viitor” and its weekly e-publication “ACUM”: founder and editor of the section “Cercetare, Stiinta, Tehnologie” (=“Research, Science, Technology”), editor of several other sections
- *Policy/leadership/science popularization*: Invited speaker, “Scientific Colloquium of Romanian Researchers in Denmark”, organized by the Romanian Embassy, March 10, 2007, Copenhagen, DK; Invited speaker, conference on the “Migration of Young Romanian Researchers and Possibilities of Return”, organized by the Romanian Cultural Institute (ICR), under the patronage of the President of Romania, Oct 14-Oct 18, 2004, Sinaia, RO; 2002-2003, participant in various international policy/student/youth/leadership conferences: “International Youth Leadership Conference”, organized by Civic Concepts International, Jul 27-Aug 1, 2003, Prague, CZ; Young European Citizens Convention on the theme “Europe and Global Governance”, organized by the Institut Europeen de Cluny and L' Ecole Nationale Supérieure d'Arts et Metiers de Cluny (ENSAM), Jun 10-20, 2003, Cluny, FR; European Connection Conference 2003 on “Global Governance: The European Union, a Model for the World?”, organized by the Model European Union Foundation (MEU), April 28-May 3, 2003, Maastricht, NL; “Generation Europe” 2002 Summit on “Corporate Social Responsibility”, with the final debate in the plenary of the European Parliament, Nov 29- Dec 2, 2002, Brussels, BE; 1998- 1999, Member of the University College Utrecht “Career Team”
- *Non-academic work experience*: 1998- 2001: various part-time/short-term employment involving IT skills (including software design and expert level programming in Java and SQL) in: the “media and communication” department, network administration, helpdesk team, or hired as programmer, within Utrecht University’s Faculty of Humanities, University College Utrecht and respectively two IT-profile enterprises, in The Netherlands
- *Sport*: ongoing, for years: Swimming; 2003-2004, Aikido (martial art) trainee at the Dojo of the Univ. of Amsterdam Sports Center; 2000-2001, Member of the Sports Committee, founder of the Chess Club, (co)organizer and participant in Chess Competitions at the University College Utrecht; 1992-1995, Member of the Water-Polo team “Vointa Cluj”, participation in the Romanian National Junior Water-Polo Championship
- *Extra-curricular (student) scientific*: 1999-2001, Member of the “Science Theory Group” (coordinated by Dr. Frank Witte), University College Utrecht, Utrecht University

References

Available upon request.