

Curriculum Vitae

Bernhard Rengs

Personal Details

Name: Dr. Bernhard William Henri Rengs

Birth: 9.7.1976 in Vienna, Austria

Personal status: Married to Daniela Rengs (born Daniela Bauer), since 2009
Father of Andrea C. Rengs (daughter), born 02.09.2009
Father of Michael H. Rengs (son), born 22.05.2011

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Education

2007 Doctoral degree (Dr.rer.soc.oec.) in social sciences and economics ('Wirtschaftsinformatik') with honors at the Vienna University of Technology. Thesis title: 'Visualisierung dynamischer makroökonomischer Modelle' ('Visualization of dynamic macroeconomic models')

2002-2008 Further graduate-level studies in computer sciences (software engineering & internet computing) at the Vienna University of Technology

2000 Graduation: master's degree (Mag.rer.soc.oec) in social sciences and economics 'Wirtschaftsinformatik' (economics and computer sciences) at the Vienna University of Technology and University of Vienna; specialization areas 'Applied Game Theory' and 'Artificial Intelligence'. Thesis title: "Ökonomische Paradoxa aus spieltheoretischer Sicht" ("Gametheoretic approaches to Economic Paradoxa")

Scientific Work Experience

2014 - Postdoctoral researcher at the Vienna Institute of Demography, Austrian Academy of Sciences

2018 - 2019 Lecturer at Technische Universität Wien

2016, 2018 Lecturer at Vienna University of Economics and Business

2015 – 2017 Lecturer at Vienna University of Technology

- 2004 – 2014 Assistant Professor at the Institute for Mathematical Methods in Economics, Research Group Economics, Vienna University of Technology
- 2003 Assistant Professor at the Institute of Economics and Economic Computer Sciences (VWL und Wirtschaftsinformatik), Vienna University of Technology
- 2001 – 2003 Project Assistant at the Institute of Economics and Economic Computer Sciences (VWL und Wirtschaftsinformatik), Vienna University of Technology (part time)

Research Interests

- Computational Social Simulation
- Agent Based Computational Simulation
- Agent Based Economics
- Population Economics
- Migration, Forced Migration
- Information Visualization

Journal Publications

- Rengs, B., Scholz-Wäckerle, M., van den Bergh, J. (forthcoming), 'Evolutionary macroeconomic assessment of employment and innovation impacts of climate policy packages', *Journal of Economic Behavior & Organization*
- Kohlenberger, J., Buber-Ennsner, I., Rengs, B., Leitner, S., Landesmann, M. (2019), 'Barriers to health care access and service utilization of refugees in Austria: Evidence from a cross-sectional survey', *Health Policy*, Vol. 123, Issue 9, 833-839.
- Klausinger, H., Kuhn, M., Prskawetz, A., Rengs, B. (2019), 'Special issue: 100th anniversary of the Austrian Economic Association and the Future of Health Care Systems', *Empirica*, Vol. 46, Issue 3, 409-411
- Buber-Ennsner, I., Goujon, A., Kohlenberger, J., Rengs, B. (2018). 'Multi-Layered Roles of Religion among Refugees Arriving in Austria around 2015', *Religions*, Vol. 9, Issue 5, 154
- Rengs, B., Scholz-Wäckerle, M. (2018), 'Consumption & class in evolutionary macroeconomics', *Journal of Evolutionary Economics*, Vol. 29, Issue 1, 229-263
- De Mulder, W., Rengs, B., Molenberghs, G., Fent, T., Verbeke, G. (2018), 'Extending Gaussian process emulation using cluster analysis and artificial neural networks to fit big training sets', *Journal of Simulation*, Vol. 13, Issue 3, 195-208
- Kohlenberger, J., Buber-Ennsner, I., Rengs, B., Al Zalak, Z. (2017), 'A Social Survey on Refugees in and Around Vienna in Fall 2015: Methodological Approach and Field Observations', *Refugee Survey Quarterly*, Vol. 36, Issue 4, 1-20
- Buber-Ennsner, I., Kohlenberger, J., Rengs, B., Alzalak, Z., Goujon, A., Striessnig, E., Potančoková, M., Gisser, R., Testa, M.R., Lutz, W. (2016) 'Human Capital, Values, and Attitudes of Persons Seeking Refuge in Austria in 2015', *PLoS ONE*, Vol. 11, Issue 9, 1-29
- De Mulder, W., Rengs, B., Molenberghs, G., Fent, T., Verbeke, G. (2016), 'Evaluation of Some Validation Measures for Gaussian Process Emulation: a Case Study with an Agent-Based Model', *International Journal on Advances in Systems and Measurements*, Vol. 9, Issues 3&4, 188-198

- Wäckerle M., Rengs B. and Radax W. (2014), 'An Agent-Based Model of Institutional Life-Cycles', *Games* 5 (3): 160-187
- Prskawetz, A., Freund I., Rengs B. (2013), 'Special issue: The Economics of Ageing, Selected Papers from the 2012 Annual Meeting of the Austrian Economic Association' - Editorial, *Empirica* 40/3
- Radax W., Rengs B. (2010), 'Prospects and Pitfalls of Statistical Testing: Insights from Replicating the Demographic Prisoner's Dilemma', *Journal of Artificial Societies and Social Simulation*, Vol. 13, Issue 4, Oct. 2010

Other refereed publications

- De Mulder W., Rengs B., Molenberghs G., Fent T., Verbeke G. (2016): 'A comparison of some simple and complex surrogate models: make everything as simple as possible?', presented at SIMUL 2016: The Eighth International Conference on Advances in System Simulation, Rome, Italy [available in the proceedings]
- De Mulder W., Rengs B., Molenberghs G., Fent T., Verbeke G. (2015): 'Statistical Emulation Applied to a Very Large Data Set Generated by an Agent-based Model', presented at SIMUL 2015: The Seventh International Conference on Advances in System Simulation, Madrid, Spain [won Best Paper Award, available in the proceedings]
- Rengs B., Wäckerle M. (2014), 'A computational agent-based simulation of an artificial monetary union for dynamic comparative institutional analysis', available in the proceedings of the 'IEEE Symposium on Computational Intelligence for Financial Engineering & Economics 2014'
- Radax W., Rengs B. (2010), 'Timing matters: Lessons from the CA literature on updating,' presented at the Third World Congress of Social Simulation, Kassel, September 6-9, 2010, also available at arxiv.org
- Rengs B. (2006), PhD Thesis: 'Visualisierung dynamischer makroökonomischer Modelle', Vienna University of Technology.
- Rengs B. (2000), Master Thesis: 'Ökonomische Paradoxa aus spieltheoretischer Sicht', Vienna University of Technology

Book chapters and books

- Kohlenberger, J., Buber-Ennser, I., Rengs, B., Leitner, S., Landesmann, M. (2019), 'Gesundheitszugang von syrischen, irakischen und afghanischen Geflüchteten in Österreich: Ergebnisse aus dem Refugee Health and Integration Survey' in: 'Migration und Integration 7: Dialog zwischen Politik, Wissenschaft und Praxis', Reihe Dialogforum Integration, Editors: Czaika, M., Rössl, L., Altenburg, F., Faustmann, A., Pfeffer, T., 239-259. Krems: Edition Donau-Universität Krems.
- Kohlenberger, J., Buber-Ennser, I., Rengs, B. (2019), 'Was wissen wir über die Geflüchteten, die 2015 zu uns kamen?' in: 'Die lange Dauer der Flucht – Analysen aus Wissenschaft und Praxis' (Reihe: ISR-Forschungsberichte 49), Editors: Kohlbacher, J., Six-Hohenbalken, M., 109-129. Wien: Österr. Akademie der Wissenschaften, Philosophisch-historische Klasse
- Kohlenberger, J., Buber-Ennser, I., Rengs, B. (2018), 'Datenerhebungen unter Geflüchteten und ihren Familien' in: 'Familie - Bildung - Migration: Familienforschung im Spannungsfeld

zwischen Wissenschaft, Politik und Praxis', Editors: Kapella, O., Schneider, N.F., Rost, H., 281-296. Leverkusen: Barbara Budrich.

- Riederer, B., Mynarska, M., Winkler-Dworak, M., Fent, T., Rengs, B., Philipov, D. (2017), 'Vulnerability and the future of families with children in Europe: Nine questions and corresponding answers' in the series 'Schriften des Instituts für Demographie der Österreichischen Akademie der Wissenschaften', ISBN 978-3-7001-8223-8
- Rengs, B., Scholz-Wäckerle, M. (2017), 'Fiscal policy and redistribution in an evolutionary macroeconomic model of an artificial monetary union', in: 'Theory and Method of Evolutionary Political Economy: A Cyprus Symposium', Editors: Hanappi, H., Katsikides, S., and Scholz-Wäckerle, M., 193-213, Abingdon, Oxon, New York, NY: Routledge
- Böhm B., Rengs B. (2009), 'Urbane Ökonomie und Altern' in 'Ageing Society. Altern in der Stadt, Aktuelle Trends und ihre Bedeutung für die strategische Stadtentwicklung', Facultas Verlag

Other publications (non-exhaustive)

- Rengs, B., Buber-Ennsner, I., Kohlenberger, J., Hoffmann, R., Soder, M., Gatterbauer, M., Themel, K., Kopf, J. (2017): 'Labour market profile, previous employment and integration potential of refugees from Syria, Iraq and Afghanistan: An Austrian case study', VID Working Paper 13/2017
- Ichou, M., Goujon, A., Buber-Ennsner, I., Kohlenberger, J., Rengs, B., Al Zalak, Z., Striessnig, E., Potancoková, M., Gisser, R., Testa, M., Lutz, W. (2017): 'Immigrants' educational attainment: A mixed picture, but often higher than the average in their country of origin', Population and Societies, Vol. 541, p. 1-4
- Riederer, B., Mynarska, M., Winkler-Dworak, M., Fent, T., Rengs, B., & Philipov, D. (2017): 'Futures of families in times of multifaceted societal changes: a foresight approach', FamiliesAndSocieties Working Paper Series, No. 66
- Riederer B., Philipov D. and Rengs B. (2016): 'Experts' opinions on the future vulnerability of families with children: Results of an online questionnaire study', FamiliesAndSocieties Working Paper Series, No. 65
- Kohlenberger, J., Buber-Ennsner, I., Rengs, B., Al Zalak, Z. (2016): 'A social survey on asylum seekers in and around Vienna in fall 2015: Methodological approach and field observations', VID Working Paper 6/2016
- Winkler-Dworak M., Fent T., Rengs B., Beaujouan E., Di Giulio P., Spielauer M. (2015), 'Changing partnership and fertility: Report on the results of the micro-simulation and agent-based approach about future of family forms', FamiliesAndSocieties working paper
- Rengs B., Scholz-Wäckerle M., Gazheli A., Antal M., van den Bergh J. (2015), 'Testing innovation, employment and distributional impacts of climate policy packages in a macro-evolutionary systems setting', wwwforeurope working paper no 83
- Hanappi H., Rengs B., Unterluggauer A. (2004), Forschungsprojekt-Endbericht: 'Gesamtwirtschaftliche Metamodellierung: Komplexe Dynamiken und deren Visualisierung', funded by the Jubiläumsfonds of the OeNB.
- Rengs B., Unterluggauer A. (2003), 'Visual Representation of Economic Systems - Clustering and Emergence of Institutions', presented at EAEPE Annual International Conference 2003, Maastricht - Belgium.

Selected presentations & poster presentations (not exhaustive)

- Georges, D., Buber-Ennsner, I., Rengs, B., Kohlenberger, J., Doblhammer, G. (2019): 'A Comparison of Refugees' Health Determinants in Germany and Austria' presented at the Wittgenstein Centre Conference 2019: Demographic Aspects of Human Wellbeing, Vienna, Austria, 11.11.-12.11.
- Kohlenberger, J., Leitner, S., Buber-Ennsner, I., Rengs, B. (2019): 'Mental Wellbeing of Syrian, Iraqi and Afghan Refugees in Austria: Evidence on the Prevalence of Anxiety Disorder and Depression' presented at the Wittgenstein Centre Conference 2019: Demographic Aspects of Human Wellbeing, Vienna, Austria, 11.11.-12.11.
- Kohlenberger, J. & Rengs, B. (2019): 'SyrierInnen in Diaspora in Österreich' presented at the Deutsch-Österreichisch-Schweizerisches Demographentreffen, Vienna, Austria, 23.10.-25.10.
- Buber-Ennsner, I., Kohlenberger, J., Rengs, B. (2018): 'Family Context of Married Refuge Seeking Persons from Syria and Iraq' presented at the European Population Conference 2018, Brussels, Belgium, 06.06.-09.06.
- Buber-Ennsner, I., Al Zalak, Z., Kohlenberger, J., Rengs, B. (2017): 'Family context of married refugee seeking persons: Who arrived with the partner? Who left children behind? Insights from Syrian and Iraqi persons arriving in Austria in 2015' presented at International Population Conference, Capetown, South Africa, 29.10.-04.11.
- Buber-Ennsner, I., Kohlenberger, J., Rengs, B. (2016): 'Bildung, Qualifikationen und Wertvorstellungen asylsuchender Personen in Österreich im Jahr 2015: Erste Ergebnisse einer Befragung in und um Wien' presented at the Statistische Woche 2016, Augsburg, Germany, 15.09.2016.
- Buber-Ennsner, I., Kohlenberger, J., Rengs, B., Alzalak, Z., Goujon, A., Striessnig, E., Potančoková, M., Gisser, R., Testa, M.R., Lutz, W. (2016): 'Displaced persons arriving in fall 2015 in Austria: insights on their human capital' presented at the European Population Conference, Mainz, Germany, 02.09.2016.
- Scholz-Wäckerle M., Rengs B. (2015): 'Analyzing the co-evolutionary dynamics of emulated as well as conspicuous consumption and firm specialization in a macroeconomic agent-based model', presented at the 27th Annual Conference of the European Association for Evolutionary Political Economy, Genoa, Italy
- Scholz-Wäckerle M., Rengs B. (2015): 'Heterogeneous Bank Lending rules in an agent-based Artificial monetary Union', presented at the 56th Annual Conference of the Italian Economic Association, Naples, Italy
- Rengs B., Wäckerle M. (2014), 'A computational agent-based simulation of an artificial monetary union for dynamic comparative institutional analysis', presented at the EAEPE Annual International Conference 2014, Nicosia, Cyprus
- Fent T., Rengs B. (2014), 'Gender relations and fertility - An agent-based approach', presented at the Workshop 'Recent Developments and Future Directions in Agent-Based Modelling in Population Studies', 18-19 September 2014, University of Leuven, Belgium
- Naqvi S.A.A., Rengs B. and Wäckerle M. (2014), 'Analyzing Energy Policies in a Stock-Flow Consistent Agent-Based Macroeconomic Model', presented at ISEE 2014: Biannual Conference of the International Society for Ecological Economics - Wellbeing and Equity within Planetary Boundaries, Reykjavik, Iceland

- Rengs, B., Wäckerle, M. (2014): 'A Computational Agent-Based Simulation of an Artificial Monetary Union for Dynamic Comparative Institutional Analysis' presented at IEEE Computational Intelligence for Financial Engineering & Economics 2014, London, Great Britain
- Rengs B., Wäckerle M. (2013), 'Agent based modelling of monetary unions between artificial economies', Paper presented at EAEPE Annual International Conference 2013, Paris, France.
- Hanappi H., Rengs B., Wäckerle M. (2013), 'Simulating a small monetary union between artificial economies from the bottom up', Paper presented at WEHIA 2013 - the annual 'Workshop on the Economic Science with Heterogeneous Interacting Agents', June 20-22, 2013, Reykjavik University, Iceland.
- Radax W., Rengs B. (2009), 'Replication of the Demographic Prisoner's Dilemma', presented on the 2009 European Social Simulation Association Conference (Plenary Paper) in Surrey, GB
- Hanappi H., Radax W., Rengs B., Wäckerle M. (2009), 'Modelling Global Institutional Networks,' presented at EAEPE Annual International Conference 2009, Amsterdam, The Netherlands).
- Wäckerle, M., Radax W., Rengs B. (2009), 'An agent-based approach to institutional change', presented at EAEPE Annual International Conference 2009, Amsterdam, The Netherlands).
- Hanappi H., Rengs B. (2008), 'On the Eve of Global Financial Collapse. Explanations, necessity, and policy conclusions', presented at EAEPE Annual International Conference 2008, Rome - Italy).
- Wäckerle M., Rengs B. (2007), 'Habitus and the Evolution of Educational Institutions – Knowledge Accumulation in the Long-Run', presented at EAEPE Annual International Conference 2007, Porto, Portugal.
- Hanappi H., Rengs B., Gombotz D. (2007), Exploring University Design - The prototype microsimulation model U-SIM-7, presented at 1st General Conference of the International Microsimulation Association, Vienna – Austria
- Wäckerle M., Hanappi H., Rengs B. (2005), 'Advanced Democracy Design' – short paper, presented at 'IADIS International Conference on e-Society 2005', in Qawra - Malta.

Non/Semi-Scientific Publications

- Vesely E., Rengs B., Madsen S. (2018), 'Sind die Kinder gut betreut? Bedarfserhebung zur Kinderbetreuungssituation der Angehörigen der TU Wien 2016', TU Wien
- Vesely E., Rengs B. (2013), 'Bedarfserhebung zur Kinderbetreuungssituation der Angehörigen der TU Wien 2012', TU Wien
- Prskawetz A., Rengs B. (2012), 'Mathematik in der Ökonomie', Schriftenreihe zur Didaktik der Mathematik der Österreichischen Mathematischen Gesellschaft, 98-107.
- Radax W., Rengs B. (2010), 'Anwendungen von Multiagentensimulationen in der Kooperationstheorie.' IWK-Mitteilungen 65(1-2): Themenheft 'Forschen in der Von-Neumann-Galaxis.'

Major Scientific Projects

- 2019-2021: participation in the AMS Österreich / WU Wien research project: 'Women's Integration Survey: Inklusion, Teilhabe und Enablement geflüchteter Frauen in Österreich'

- 2019-2022: participation in the Volkswagenstiftung / WU Wien research project: 'Die Gesellschaft nach dem Geld - Eine Simulation'
- 2017-2018: participation in the WU Wien research project: 'Refugee Health and Integration Survey: Mental health and health access of refugees in Austria.'
- 2016-2018: participation in the FP7 research project (613247): 'Ageing Europe: An application of National Transfer Accounts (NTA) for explaining and projecting trends in public finances'
- 2013-2016: major participation in the FP7 research project (320116): 'Families and Societies'
- 2013-2016: participation in the 'OeNB Jubiläumsfonds' project (15299): 'Eine Untersuchung von institutionellen Komponenten der Banken-Makro Vernetzung'
- 2013-2014: participation in the FP7 research project (290647): 'WWWforEurope — Welfare, Wealth and Work for Europe' (Area 2) in Collaboration with WU-Wien (Vienna University of Economics and Business) and UAB Barcelona (Universitat Autònoma de Barcelona)
- 2011-2013: participation in the 'OeNB Jubiläumsfonds' project (14261): 'Wirtschaftliche Perspektiven Europas als Teil der Weltwirtschaft auf Basis von Simulationsszenarien'
- 2010-2011: participation in the FP7 (Call FP7-ICT-2011-7) project proposal writing 'Public Online LOD-based Innovation poliCY And GOVeRnance Agora' (proposal submitted)
- 2010: participation in the FP7 (Call FP7-SSH-2010-1) project proposal writing 'Exploring innovative historical and economical perspectives to reform the financial system: groundbreaking economic approaches to the design and governance of finance for society' (not accepted)
- 2009: participation in the research project proposal writing for COST project (Cost action IS0902) 'Systemic Risks, Financial Crisis and Credit - the roots, dynamics and consequences of the Subprime Crisis' (accepted), Participation in Workshops held in the course of the COST project
- 2007-2008: major participation in the project: 'Ageing Society' conducted at the TU Wien, subproject of the interuniversity Research Project 'Altern in der Stadt') by WU-Wien, TU-Wien, KMU Forschung Austria and ARC Vienna
- 2001-2010: multiple minor participations in the aquisition of new research projects and running research projects conducted at the Institute for Mathematical Methods in Economics, TU Wien, as well as the Department for Gender and Diversity in Organizations, WU Wien
- 2001-2004: major participation in the 'OeNB Jubiläumsfonds' project: 'Gesamtwirtschaftliche Metamodellierung: Komplexe Dynamiken und deren Visualisierung' conducted at TU Wien

Teaching

2018 – 2019	TU Wien: bachelor-level compulsory introductory course in microeconomics, master-level compulsory introductory and elective specialization courses in computational social simulation – mainly on agent-based computational simulation
2018	European Doctoral School of Demography (University of Southern Denmark in Odense, Denmark): intensive PhD course in agent-based modelling
2016 – 2019	WU Wien: master-level elective practical course in agent-based modelling

2015 – 2017	TU Wien: master-level compulsory introductory and elective specialization courses in computational social simulation – mainly on agent-based computational simulation
2015	MPDIR Rostock: Advanced ABM course in a post-doctoral school on agent based modelling and simulation
2013	TU Wien: planned, organized and taught the BEST summer school on game theory and computational social simulation
2005 – 2014	TU Wien: multiple bachelor and master-level compulsory and elective, introductory and specialization courses in computational social simulation and computational economics
2003 – 2014	TU Wien: multiple bachelor and master-level compulsory and elective, introductory and specialization courses in economics (economics, microeconomics, behavioural economics, socio-economics) and applied game theory

From 2003-2019 I advised 50+ bachelor thesis and supported 20+ master thesis and provided extensive support for 4 doctoral students (Wolfgang Radax [f], Manuel Wäckerle [f], Tobias Haberler [o], Wolfgang Köpf [o]).

In 2011, I was awarded the Teacher’s Award of the Faculty of Informatics and the computer science student’s union for outstanding teaching performance for the course Information Economics, held in the academic year 2010/2011..

Achievements and Prizes

- 2019 Kurt Rothschild Price for communication of scientific economics 2019 (together with Judith Kohlenberger and Isabella Buber-Ennser)
- 2015 Best paper award at SIMUL 2015 conference (joint work with Wim De Mulder, Geert Molenberghs, Thomas Fent, Geert Verbeke)
- 2011 Teacher’s Award of the Faculty of Informatics and the computer science student’s union for outstanding teaching performance for the course Information Economics, held in the academic year 2010/2011
- 2009 Volterra Replication Prize by the ESSA (European Social Simulation Association), for the ‘Replication of the Demographic Prisoner’s Dilemma’ (joint work with Wolfgang Radax)

Other scientific work

- 2018-2019 Guest Editor of the Empirica – Journal of European Economics - 2018 Special Conference Issue
- 2018 Head of the local organizational committee of the NOeG 2018 conference held at TU Wien
- 2017-2018 Scientific committee member of the NOeG 2018 conference
- 2013 Scientific committee member of the EAEPE 2013 conference held in Paris, France
- 2012-2013 Guest Editor of the Empirica – Journal of European Economics - 2012 Special Conference Issue

- 2012 Scientific committee member of the EAEPE 2012 conference held at Cracow, Poland
- 2012 Co-Head of the local organizational committee of the NOeG 2012 conference held at TU Vienna
- 2012 Scientific committee member of the NOeG 2012 conference held at TU Vienna
- 2011 Head of the local organizational committee of the Schumpeter 2011 (+EAEPE 2011) conference held at Tech Gate Vienna (TU Vienna)
- 2011 Scientific committee member of the EAEPE 2011 conference
- Referee for “Journal of Artificial Societies and Social Simulation” and “Demographic Research”

Miscellaneous activities

- 2015-today IT-coordinator (lead, strategic decisions and scientific computing) of the Vienna Institute of Demography, Austrian academy of sciences
- 2003-today IT-coordinator, sys- and webadmin of the Research Area Economics/SWM – TU Wien
- 2015-2019 External member of the curricular for studies in Business Informatics (Wirtschaftsinformatik) and Data Science, Curricular Track Coordinator for the Economic Modeling Track of Business Informatics at TU Wien
- 2004-2014 Permanent member of the curricular committee in Business Informatics (Wirtschaftsinformatik) at TU Wien ("Mittelbau"-Vertreter)
- 2010-2011 Member of the curricular sub-committee for for studies in Business Informatics (Wirtschaftsinformatik) of TU Wien
- 2006 Local organizer of the NOeG 2006 conference held TU Wien
- 2004 Local co-organizer of the "Jahrestagung 2004 des Ausschusses für Evolutorische Ökonomik des Vereins für Socialpolitik"
- 1998-2001 Permanent student union representative in various organizational and finding committees of the TU Wien (Studienkommission, Fakultätsrat, Berufungskommissionen)

Technical skills

- *Standard Software Packages [very experienced]:* Microsoft Office (Word, Excel, Powerpoint, Access, Publisher, Visio, Project); openOffice; Adobe Creative Suite (Illustrator, Indesign, Photoshop, Flash, Dreamweaver, Acrobat); Inkscape + multiple specialized software packages
- *Client / Server Computer Network Administration (deployment/setup, configuration and administration) [very experienced]:* 25+ years of experience with Windows (Windows 3, 3.1 + MSDOS 3.3/5/6, 95, 98, 2000, XP, Vista, 7, 8, 10) standalone & client operating systems; 20+ years of experience with Linux client & server operating systems (Redhat & Fedora, Suse & openSuse, Debian) – LAMP, Sendmail/Postfix & multiple other server daemons; 15+ years of experience with Windows Server (2003, 2008, 2012, 2016, 2019) operating systems including IIS, MSSQL, AD & MS Exchange Server (2007, 2013); Limited Experience with Mac family client operating systems MacOS 9 & MacOS X
- *Software Development / Computer Languages:* NetLogo; R; PHP (very experienced); VisualBasic & VBA for Applications (e.g. Access) (very experienced, but outdated); Unix-Shell Scripting; Perl; C (outdated); Javascript (experienced); Java; Pascal, Turbo Pascal & Delphi (all experienced, but outdated); SQL Databases - MSSQL, MySQL((experienced)); Document description languages: HTML, LaTeX, XML

- *Client / Server Hardware (planning, selection & acquisition, assembling, configuration & administration) [very experienced]* Common PC Hardware (Multi-CPU, Small Clusters), Computer Networks (Cabling, Router, VPN & Firewall Configuration, etc.)

Due to the work experience gained in many different professional positions (in universities, scientific research institutions and in non-scientific companies) as scientist, head of IT, lecturer, instructor, teacher, mentor, software developer, designer, client / server support, administration, I have a very strong grasp of computer science and systems and their application in scientific working environments.