

**Nedim Gavranović,**  
**PhD in Actuarial Science**  
**Certified Actuary in B&H**  
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## CURRICULUM VITAE

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Date of birth ..... 16<sup>th</sup> December 1971.  
Place of birth ..... Sarajevo, Bosnia and Herzegovina  
Nationality ..... Bosnia and Herzegovina

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### EMPLOYMENT:

- 01.10.2022 – present Assistant Professor at International University of Sarajevo, Faculty of Business and Administration. Lecturer for subjects Business Statistics I, Business Statistics II, Econometrics;
- 01.10.2011 – present Consulting actuary, clients include GRAWE osiguranje d.d. Sarajevo, ASA osiguranje d.d. Sarajevo, RSM Kosovo, Supervisory Agency of Federation of BiH, BH Telecom d.d. Sarajevo and 20+ other companies. Consulting work mainly related to reserve and premium calculation, business analysis, digitalisation and similar calculation;
- 26.01.2022 – present employed in Electronic Metal Produkt d.o.o. private company for metal processing, Sarajevo, BiH. Temporary position, working on the projects to overcome business consequences of COVID-19;
- 01.10.2020 – 25.01.2022 employed in Dido optimal d.o.o. private company for consulting, mathematical and IT engineering, Sarajevo, BiH;
- 01.10.2011 – 30.09.2020 Assistant Professor at American University in B&H, American School of Economics. Lecturer for subjects Risk management, Risk Analysis, Mathematics, Statistics, Quantitative Business Methods – applied in MS excel, Investments, Business Analysis;
- 01.10.2007 – 30.09.2011 Director of ASA OSIGURANJE d.d. Sarajevo. Starting from greenfield investment, after four years ASA OSIGURANJE plc attained 3,5% market share in non-life insurance, had 100 employees, annual income of more than 5 mil EUR.;
- 01.05.2007 – 30.09.2007 ASA Holding d.o.o, Advisor of the General Manager. The position was to prepare the establishment of the new insurance company as green field investment with ASA Holding d.o.o as the major shareholder;
- 01.02.1999 – 30.06.2004 Teaching assistant at University of Sarajevo, Faculty of Science, Department of Mathematics, Assistant for subjects Probability and Statistics, Linear Algebra, Differential Geometry;
- 07.12.1998 – 30.04.2007 Chief actuary at Sarajevo osiguranje d.d. During eight years, I establish Actuarial Department in Sarajevo osiguranje d.d. worked as both life and non-life actuary but majority of time I worked on the life insurance.;

**EDUCATION:**

- 2003–2011: Postgraduate studies MPhil/PhD in Actuarial Science, City University of London, CASS Business School, Faculty of Actuarial Science, London UK; Supervisor – Professor Steven Haberman. The title of the thesis is “Optimal Asset Allocation in a Defined Contribution Pension Schemes”;
- 2004–2005: Fulbright scholarship for visiting research 01.10.2004–30.06.2005 at University of Illinois, Urbana–Champaign, United States of America, Department of Mathematics, Actuarial Science Program. Research was part of MPhil/PhD research. Academic Advisor at UIUC – Professor Rick Gorvett;
- 2003 : Elected to be a Certified Actuary in Bosnia and Herzegovina;
- 2001 : Partly qualified actuary in UK, Diploma in Actuarial Techniques by Institute of Actuaries;
- 1999–2000: Postgraduate student on the Diploma/MSc in Actuarial Science, City University in London, School of Mathematics, Department of Actuarial Science; Supervisor – Professor Steven Haberman. The title of the thesis is “Capital at Risk Approach for Optimal Quota Share Life Reinsurance on Risk Premium Basis”. MSc awarded with distinction;
- 1991–1998: Student of the University of Sarajevo, Faculty of Science, Department of Mathematics; The title of the thesis is “Elliptic Curves in Cryptography”. Average mark 9.4 out of 10;
- 1992–1996: Enrolled in the Army of Bosnia and Herzegovina;
- 1990–1991: Enrolled in ex–Yugoslav Army;
- 1986–1990: Attended II High School in Sarajevo, finished with excellent marks;

**AWARDS BEFORE HIGHER EDUCATION:**

- 1990: Second prize on the State Competition for Young Mathematicians of ex–Yugoslavia;
- 1988: Second prize on the Republic Competition for Young Mathematicians of Republic Bosnia and Herzegovina;
- 1987–1990: Many Diplomas and Awards on the Competitions for Young Mathematicians of former Yugoslavia and Republic Bosnia and Herzegovina;

**SEMINARS:**

- 28.05.–01.06.2023: 32. International Congress of Actuaries, Sydney, Australia;
- 20.12.–21.12.2021: Seminar “IFRS 17”, Sarajevo, BiH, organized by Actuarial association in BiH;
- 12.11.–13.11.2019: Seminar “The Actuarial Profession in the Context of Risk-Based Capital Solvency Regimes”, Sarajevo, BiH, organized by Actuarial association in BiH;
- 12.06.2019: Seminar “IFRS 17”, Sarajevo, BiH, organized by Actuarial association in BiH;
- 15.11.–16.11.2018: Seminar “Actuarial and Risk Communication, IAA topics, Non-life insurance premium calculation”, Sarajevo, BiH, organized by Actuarial association in BiH;
- 04.06.–08.06.2018: 31. International Congress of Actuaries, Berlin, Germany;

- 2014–2018: Management Committee Member and active participant in COST Action IS 1402 – Ageism - a multi-national, interdisciplinary perspective, workgroup "The workforce";
- 28.09.–29.09.2015: IAA Regional Seminar, Eurasia and Middle East Subcommittee, Baku, Azerbaijan;
- 28.03.–04.04.2014: 30. International Congress of Actuaries, Washington DC, USA;
- 19.12.–20.12.2013: Seminar “Solvency II (VI module)”, Sarajevo, BiH;
- 06.12.–07.12.2012: Seminar “Solvency II (V module)”, Sarajevo, BiH;
- 01.02.–02.02.2012: Seminar “Professionalism”, Sarajevo, B&H, organized by Actuarial Association in B&H;
- 05.12.–06.12.2011: Seminar “Solvency II (IV module)”, Sarajevo, B&H;
- 02.06.–03.06.2011: Seminar “Solvency II (III module)”, Sarajevo, B&H;
- 06.12.–07.12.2010: Seminar “Solvency II (II module)”, Sarajevo, B&H;
- 16.11.–17.11.2010: Seminar “InsuranceCom 2010 conference”, Vienna, Austria;
- 15.10.–16.10.2010: Annual BH Alumni conference, Bosnian American Academic Exchange Association, Mostar, B&H;
- 20.05.–21.05.2010: Seminar “Solvency II (I module)”, Sarajevo, B&H;
- 16.11.–17.11.2009: Seminar “InsuranceCom 2009 conference”, Budapest, Hungary;
- 04.09.–05.09.2006: Seventh International Professional Meeting of Leaders of the Actuarial Profession in Central and Eastern Europe, Warsaw, Poland;
- 28.05.–02.06.2006: 28. International Congress of Actuaries, Paris, France;
- 31.03.–03.04.2005: Seminar organized by International Institute for Education for Fulbright scholarship participants, "Generations of Change: Politics and Society in America Since World War II.";
- 22.04.–24.04.2004: Sixth International Professional Meeting of Leaders of the Actuarial Profession in Central and Eastern Europe, Dubrovnik, Croatia;
- 22.08.–24.08.2002: Fifth International Professional Meeting of Leaders of the Actuarial Profession in Central and Eastern Europe, Vilnius, Lithuania;
- 14.04.–18.04.2002: Annual Conference and Fair "Risk and Insurance Management Society, Inc.", Louisiana, USA;
- 25.11.–05.12.2001: The Seminar in Insurance for South East Europe, New York USA;
- 01.07.–30.07.1999: Studying on the University of Warsaw, Poland, Summer School in Actuarial Science;
- 01.03.–30.03.1998: Studying on the University in Vienna, Austria, topic “Elliptic Curves in Cryptography”;
- 15.05.–30.06.1997: Seminar on the topic “Dynamical systems”, held in Turin, Italy;

#### **ARTICLES:**

- Lüscher, K. et al. (2017): Generationen, Generationenbeziehungen, Generationenpolitik. Ein mehrsprachiges Kompendium, Chapter in Bosnia and Herzegovina language;
- *Improved Short Term Energy Load Forecasting Using Web-Based Social Networks*, (2015), with M Kantardzic, H Gavranovic, I Dzafic and H Hu, *Social Networking*, 2015, 4, 119-131;
- *Optimal Asset Allocation in the Pre-retirement Period, Conditional on the Post-retirement Optimal Strategy*, (2014), presented on 30. International Congress of Actuaries ICA 2014, Washington DC, USA;

- *Life Insurance In BiH And Turkey – Data, Products, Comparative Analysis Of Markets And Opportunities*, (2013), presented on “European Conference In Technology And Society” EuroTecS-2013, IUS, Sarajevo, B&H;
- *A Bond Market Model Based on Discrete Time/State Space Approximation of the Vasicek Model*, (2013), presented on International Conference on Economic and Social Studies (ICESoS` 13) "Economic Crises and European Union", Sarajevo, Bosnia and Herzegovina;
- *Inflation Risk Model in a Defined Contribution Pension Scheme*, (2012), with Steven Haberman, Proceedings in Advanced Research in Scientific Areas, pp. 602–608;
- *Optimal Asset Allocation and Annuitisation in the Presence of Inflation*, (2007), presented on 11. Conference Insurance: Mathematics and Economics IME 2007, Athens, Greece;
- *Current Situation and Recent Developments in Actuarial Science in Bosnia and Herzegovina*, (2004), presented on the Sixth International Professional Meeting of Leaders of the Actuarial Profession in Central and Eastern Europe, Dubrovnik, Croatia, 2004;
- *Optimal Quota Share Life Reinsurance on a Risk Premium Basis*, (2003), with Steven Haberman, *Giornale dell'Istituto Italiano degli Attuari*, Vol. LXVI;

**ACTIVITIES ON THE UNIVERSITY OF SARAJEVO AND IN THE SOCIETY  
“INFORMATIC’S OLYMPIADS IN BOSNIA AND HERZEGOVINA”:**

- 14.07.–21.07.2001: BH Team Leader on the International Olympiad in Informatics, held in Tampere, Finland;
- 05.09.–12.09.1998: BH Team Deputy Leader on the International Olympiad in Informatics, held in Troia, Portugal;
- 15.05.–22.05.1998: BH Team Leader on the Central European Olympiad in Informatics, held in Zadar, Croatia;
- 30.11–07.12.1997: BH Team Deputy Leader on the International Olympiad in Informatics, held in Cape Town, South Africa;
- 2000–2003: Teaching Assistant in the subject Probability and Statistics;
- 1995–1998: Demonstrator on the subjects Differential Geometry and Linear Algebra;
- 1995–2004: Participated many times in preparing young people of the competitions in mathematics and informatics;

**ACTIVITIES IN THE SOCIETY OF ACTUARIES OF BOSNIA AND HERZEGOVINA:**

- 2022: Vice-President of the Actuarial Association in Bosnia and Herzegovina;
- 2020-2022: President of Education Committee of the Actuarial Association in Bosnia and Herzegovina;
- 2018: President of the Actuarial Association in Bosnia and Herzegovina;
- 2015: Officially elected member of the examiner's committee for all subjects required for obtaining actuarial certificate in Bosnia and Herzegovina;
- 2012–2015: Actuarial education, teacher and examiner for the subjects Actuarial Mathematics II, Investments and Pensions;
- 19.05.2015: Expert analysis and talk about premium loading on the regional meeting organized by Supervisory Agency of RS, Banja Luka, B&H;
- 2014–2016: Member of the Executive Board of the Actuarial Association in Bosnia and Herzegovina;
- 2012: Co-lecturer on the seminar “Professionalism” together with lecturer Chris Daykin, Past President of Groupe Consultatif;

- 2011: As a representative of the Actuarial Association in Bosnia and Herzegovina elected to be the member of the board of the examiners;
- 2005–2009: One of the founders of Actuarial Association in Bosnia and Herzegovina. Elected to be the first President of Actuarial Association in Bosnia and Herzegovina;
- 2003–2004: Acting deputy director of the Actuarial School, and the teacher on the subject "Survival Models";
- 2001–2003: Active role in defining the syllabus, and establishing the first actuarial school leading to the actuarial professionals in Bosnia and Herzegovina;
- 2001: One of the founders of Society of Actuaries in Bosnia and Herzegovina. Elected to be vice president of the Board of the Society;

**PROGRAMMING SKILLS:**

- Highly advanced knowledge of Microsoft Office, Python, Django, Visual Basic for Application, Wolfram Mathematica, Stata etc.;
- One of the leader on the project of the introduction of the integral information system “SymAss” in newly established insurance company.

**LANGUAGES:**

Bosnian: fluent (read, write, spoken)

English: fluent (read, write, spoken)

German: passive (passed introductory courses)