

CV - curriculum vitae

Personal details: Čuljak Vera

Date of Birth: 9 January 1963

Place of Birth: Mostar, Bosnia i Hercegovina

Gender: female

Nationality: Croatian

Country of residence: Croatia

Marital Status: married (since 1987.), two daughters (1990, 1996)

Office address:

Faculty of Civil Engineering University of Zagreb, Croatia,

Kačićeva 26, Zagreb, Croatia

- Tel: + 385 1 4639 460

- E-mail: vera@grad.hr

- web: www.grad.hr/vera

The name with e-mail of the head of a department of the applicant's institution:

Vesna Dragčević, *ured dekana@grad.hr*

Academic Degrees:

Ph.D. 1999 Department of Mathematics, University of Zagreb, Croatia
Hadamard, Jensen and related inequalities, (advisor J. Pečarić)

M.Sc. 1994 Department of Mathematics, University of Zagreb, Croatia
Linear superposition of functions and applications in the theory of neural networks, (advisors D. Svrtan and R. Manger)

B.Sc. November 1985, Department of Mathematics, University of Zagreb, Croatia

Symmetric function and applications in combinatorics (advisor D. Svrtan)

Professional Experience: 2012- present, Professor, Department of Mathematics, Faculty of Civil Engineering, University of Zagreb, Croatia

2006-2012, Associate Professor, Department of Mathematics, Faculty of Civil Engineering, University of Zagreb, Croatia

2000-2006, Assistant Professor, Department of Mathematics, Faculty of Civil Engineering, University of Zagreb, Croatia

1990-2000, Teaching Assistant, Department of Mathematics, Faculty of Civil Engineering, University of Zagreb, Croatia

1988- 1990, scientific researcher, Department of Expert system and Artificial Intelligence, Institute *Rade Končar*, Zagreb

1986- 1988, designer of information systems, Enterprise *Elektro-projekt*, Zagreb (in Nuclear Power Plant Krško)

1985- 1986, Institute structural engineer Aircraft industry *Soko*, Mostar, Bosnia and Herzegovina -

1982-1985, Teaching Fellow, Department of Mathematics, University of Zagreb, Croatia

Fields of interest: Mathematical inequalities and applications

Lectures on the Conferences:

1. Čuljak Vera, Converses of the Jensen inequality for $(2m)$ -convex functions and completely convex functions, MINFAA2012, MATHEMATICAL INEQUALITIES AND NONLINEAR FUNCTIONAL ANALYSIS WITH APPLICATIONS , Gyeongsang National University, Chinju, July 25-29, 2012, Korea (invited lecture)

2. Čuljak Vera, Schur-convexity of the means, // Conference on inequalities and applications '10, Book of Abstracts, Páles, Zolt editor(s). Hajdúszoboszló: Institut of Mathematics University of Debrecen, 2010. 13-13 (invited lecture)

3. Čuljak Vera, Schur-convexity of Čebišev functional, // International Conference on Mathematical Inequalities and Applications 2010, Book of Abstracts, Rehman, Atiq, editor(s), Lahore: Abdus Salam School of Mathematical Sciences, 2010. 8-9 (lecture)

4. Čuljak Vera, On an integral inequality for decreasing function, // 4th Croatian Mathematical Congress CroMC2008 Osijek, Abstracts, Scitovski, Rudolf, editor(s). Osijek: Croatian Mathematical Society, 2008. 22-22 (lecture)

5. Čuljak Vera, Ivanković Božidar, A refinement of Jensen's discrete inequality and applications, // Mathematical inequalities and applications 2008, Čižmešija, Aleksandra; Varošaneć, Sanja, editor(s). Zagreb: Element, 2008. 28-28 (lecture)

6. Čuljak Vera, Ivanković Božidar, Pečarić Josip, On some inequalities of Jensen-McShane's type on a rectangle and applications, // 12th Scientific-Professional Colloquium of CSGG Vukovar, Sonja Gorjanc, Ema Jurkin editor(s). Croatian Society for Geometry and Graphics, 2007. 8-8 (lecture)

7. V. Čuljak, J. Pečarić, L.E. Persson, Weighted Simpson's inequalities and extension of Montgomery identity, // The Third International Conference of Applied Mathematics, , Bainov, Drumi; Nenov, Svetoslav editor(s). Plovdiv, Bulgaria: 2006. 67-67 (lecture)

8. Čuljak Vera, Pečarić Josip, Persson Lars-Erik, A generalized Simpson, trapezoid and Ostrowski type inequality for convex function, // Treći hrvatski matematički kongres, Uglešić, Nikica editor(s). Split: Hrvatsko matematičko društvo, 2004. 29-29, (lecture)

9. Čuljak Vera, Pečarić Josip, The unified treatment of some inequalities of Ostrowski and Simpson types, // 2nd Croatian Congress of Mathematics. Zagreb: Hrvatsko matematičko društvo, 2000. 40-41 (lecture)

10. J. Pečarić, V. Čuljak, Abel-Gontscharoff interpolating polynomial and some inequalities for convex functions of higher order, //Inequalities 2001, Timisoara, 9.-14. 7. 2001. (lecture)

11. Čuljak Vera, Linear superposition of functions and applications in theory of neural networks, // Institute of Computer Science, Academy of Sciences of the Czech Republic, Prag, 20-27. 10. 1993. (invited lecture)

12. V. Čuljak, D. Pavuna, PROBAM - Heteroassociative multilayer memory for industrial application, Proceeding of International neural network conference INNC-90-PARIS, Paris, 1990, 847. (poster)

Scientific Projects:

2007- 2013, the collaborator on *General inequalities and applications*,(leader J. Pečarić), (supported by the Croatian Ministry of Science, Education and Sport)

2002- 2006, the collaborator on *Inequalities and applications*, (leader J. Pečarić),(supported by the Croatian Ministry of Science, Education and Sport)

1990- 1994, the collaborator on *Expert systems in the design of timber structures*, Civil Engineering, University of Zagreb,(leader Z. Žagar), (investor Croatian Ministry of Science and Technology)

IT- Projects:

2002- 2003, the researcher on *Selected Chapters of Geometry and Mathematics for Engineering Education with Mathematica* , (leader S. Gorjanc), (supported Ministry of Science and Technology of the Republic of Croatia)

Ph.D. Dissertation Supervisor:

Ivanković Božidar, *Conversions and Improvements of Jensen's inequality for functions of several variables*, (2010.), Department of Mathematics, University of Zagreb, Croatia

Referee for the evaluation of PhD Thesis in Mathematics:

1. Naveed Latif, *Majorization and its application*, GC University Lahore, Pakistan (2011.)

2. Sajid Iqbal, *On an Inequality of G. H. Hardy*, GC University Lahore, Pakistan (2013.)

Referee for the evaluation of a Master's Thesis in Mathematics:

- Dora Pokaz, *Generalized Lebesgue spaces $L^{p(x)}$* , Department of Mathematics, University of Zagreb, Croatia (2007.)

Refereeing:

1. Abstract and Applied Analysis
2. Mathematical inequalities and applications
3. Journal of Mathematical Inequalities
4. Applied Mathematics Letters
5. International Journal of Mathematics and Mathematical Sciences
6. Journal of Inequalities and Applications
7. Applied Mathematics and Computation
8. Carpathian Journal of Mathematics
9. Bulletin of Korean Mathematical Society (BKMS)

Membership:

- Mathematical Reviews/MathSciNet
- HMD (Croatian Mathematical Society)
- RGMIA (Research Group in Mathematical Inequalities and Applications)
- Seminar on Mathematical inequalities and applications (leader J. Pečarić) (1997- present)
- Seminar on Combinatoric and discrete mathematics (leader D. Svrtan)(1990-1994)

Professional Duties:

- the head of the Department of Mathematics, Faculty of Civil Engineering, University of Zagreb (2006-2008)
- the member of the Teaching Committee, Faculty of Civil Engineering, University of Zagreb (2004-2006)

Teaching:

- Undergraduate courses: Mathematics 1, Mathematics 2, Probabilities and Statistics
- Graduate courses: Mathematics 3
- Ph D courses: Applied Mathematics