



Tadeusz Sozański, Ph.D

Curriculum vitae

7th November, 2016

1. PERSONAL DATA

1950 Born October 8, Cracow, Poland.

Citizenship: Republic of Poland. Nationality: Polish.

Office and mailing address

Institute of Philosophy and Sociology, Pedagogical University of Cracow
2 Podchorążych, 30-084 Kraków, POLAND.

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2. EDUCATION. ACADEMIC DEGREES

2014 **Habilitation.** The degree “doktor habilitowany” (the degree that a PhD holder needs in Poland in order to get promoted to the position of associate professor) was awarded 17th April 2014 by the Council of the Philosophical Faculty, Jagiellonian University.

1982 **Ph.D. in sociology** from the Jagiellonian University. Thesis (prepared under the advisorship of the late Professor Klemens Szaniawski, University of Warsaw): *Structural Balance Model. Theory of Signed Graphs and Its Applications in the Social Sciences* (Model równowagi strukturalnej. Teoria grafów oznakowanych i jej zastosowania w naukach społecznych. In Polish).

1975 **M.Sc. in mathematics**, Graduated with honors from Jagiellonian University. Thesis: *Entropy of a Dynamical System* (in Polish)

1973 M.A. in sociology, Graduated with honors from the Jagiellonian University, 1973. Thesis: *Philosophical Beliefs of University Students* (in Polish)

1968 Graduated from Nowodworski Ist High School in Kraków.

Competence in foreign languages: English – reading, writing, and speaking at an advanced level; Russian, French – advanced reading competence.

3. EMPLOYMENT

Pedagogical University, Institute of Philosophy and Sociology

2013– Assistant professor (*adiunkt* – position which involves both teaching and doing research)

2008–2013 External lecturer working under contract

2006–2008 Assistant professor

Jagiellonian University, Institute of Sociology (1973–2006)

2003–2006 Lecturer (*wykładowca* – position which involves teaching only)

1982–2003 Assistant professor

Until 1990 affiliated with the Chair of Theoretical Sociology headed by Professor **Piotr Sztompka**. Since October 1990 working in the Microsociological Laboratory, headed by Professor **Jacek Sztatka** until his death (2001). In 1996 his research unit was promoted to the rank of a chair (*zakład*), being known since then as the *Chair of Research on Group Processes*. The unit ceased to exist after 2006.

1973–1982 Instructor

4. PUBLICATIONS

(see also [Publications](#) on the author's website)

Books

2013 *Spoleczne i wspólne. Studium socjologiczno-filologiczne* [The Social and the Common. A Sociologico-Philological Study]. Kraków 2013: Universitas

Books edited

1993 *Struktura, wymiana, władza. Studia z socjologii teoretycznej* [Structure, Exchange and Power. Studies in Theoretical Sociology. In Polish]. With Jacek Sztatka as 2nd editor and Marian Kempny as 3rd editor. Warsaw: Publishing House of the Institute of Philosophy and Sociology of the Polish Academy of Sciences

Papers in refereed journals or edited books

In English

2016 “Experimental Social Science.” Pp. 5–41 in *Selected Topics in Experimental Social Science* edited by Tadeusz Soza ski. Special issue of the biannual *Annales Universitatis Paedagogicae Cracoviensis – Studia Sociologica* VIII (2016/1).

2014 “The Conception of Blocking Power as a Key to the Understanding of the History of Designing Voting Systems for the EU Council.” *Decyzje* 22 (2014/2), 5–46.

2010 “The Blocking Power in Voting Systems.” Pp. 75–92 in *Institutional Design and Voting Power in the European Union*. Ed. by Marek A. Cichocki and Karol yczkowski. Farnham, Surrey, England: Ashgate Publishing Co.

2006 “On the Core of Characteristic Function Games Associated with Exchange Networks.” *Social Networks* 28: 397–426.

1998 “Conflict in Networks.” (with Jacek Sztatka as 1st author, John Skvoretz as 2nd author, and Joanna Mazur as 4th author). *Sociological Perspectives* 41: 49–66.

- 1997 "Toward a Formal Theory of Equilibrium in Network Exchange Systems." Pp. 303–350 in *Status, Network, and Structure. Theory Development in Group Processes*. Ed. by Jacek Szmatka, John Skvoretz, and Joseph Berger. Stanford: Stanford University Press.
- 1994 "On Four Myths of Sociology and Three Generations of Sociological Theories." (with Jacek Szmatka as first author). *Polish Sociological Review* 1994 no. 3(107): 219–233.
- 1992 "A Combinatorial Theory of Minimal Social Situations." *Journal of Mathematical Sociology* 17: 105–125.
- 1980 "Enumeration of Weak Isomorphism Classes of Signed Graphs." *Journal of Graph Theory* 4: 127–144.
- 1977 "Measures of Association for Nominal Variables." Pp. 247–255 in *Problems of Formalization in the Social Sciences*. Ed. by K. Szaniawski. Wrocław-Warszawa-Kraków-Gdańsk: Ossolineum.

In French

- 1976 "Processus d'équilibration et sous-graphes équilibrés d'un graphe signé complet." [Balancing Process and Balanced Subgraphs of a Complete Signed Graph]. *Mathématiques et Sciences Humaines* 14 (no. 55): 25–36.

Most important papers in Polish

Note. The list includes 4 papers in *Studia Socjologiczne*, a high-ranked Polish refereed sociological journal. The titles of all papers are translated into English.

- 2007 "A New Analysis of Voting Systems for the EU Council." *Międzynarodowy Przegląd Polityczny* [International Political Review] 18 (2007/2): 34–52 • "Blocking Minorities in Voting Systems for the EU Council." *Międzynarodowy Przegląd Polityczny* 19 (2007/3): 230–248.
- 2002 "Social Network." Pp. 28–36 in *Encyklopedia Socjologii* [Encyclopedia of Sociology], vol. IV. Warsaw: Oficyna Naukowa • "Mathematical Sociology." Pp. 73–79 in: *Encyklopedia Socjologii*, vol. IV.
- 1998 "Theoretical Sociology as a Normal Science." *Studia Socjologiczne* 1998 no. 4 (151): 5–38.
- 1995 "What is science?" Pp. 23–50 in *Nauka. To samo i tradycja* [Science. Identity and Tradition.]. Ed. by J. Górkowski and S. Marmuszewski. Kraków 1995: Universitas.
- 1994 "Structural Analysis of Conflict of Interests in Elementary Social Systems." *Studia Socjologiczne* 1994 no. 3–4 (134–135): 123–171.
- 1993 "A Tentative Formalization of Network Exchange Theory." Pp. 149–193 in *Structure, Exchange and Power. Studies in Theoretical Sociology*. Ed. by T. Sozański, J. Szmatka and M. Kempny, Warsaw: Publishing House of the Institute of Philosophy and Sociology of the Polish Academy of Sciences • "Hierarchical Exchange Systems. A Replication of an Experiment by David Willer." Pp. 235–273 in *Structure, Exchange and Power...*
- 1987 "Structural Classification of Minimal Social Situations." *Studia Socjologiczne* 1987 no. 3–4 (106–107): 155–175.
- 1986 "On the Notion of Structure in Sociology and Mathematics. Graphs as Models of Social Wholes." *Studia Socjologiczne* 1986 no. 2 (101): 111–134.
- 1985 "Structure and Structuralism in Mathematics and the Structuralist Orientation in the Social Sciences." *Studia Filozoficzne* 1985 no. 8–9 (237–238): 115–129.
- 1981 "Structural Change and the Polarization Process in a Society." Pp. 163–202 in *Elementy socjologii dialektycznej* [Elements of Dialectical Sociology]. Ed. by P. Sztompka. Poznań: PWN Publishers.
- 1974 "Students' Philosophical Beliefs: A Tentative Description Based on Empirical Sociological Research." *Zeszyty Naukowe UJ: Prace socjologiczne* 2: 35–52.

Other papers in English

- 2006 "A Graph-Theoretic Characterization of the Core in a Homogeneous Generalized Assignment Game." Pp. 275–290 in A. Wieczorek, M. Malawski, A. Wiszniewska-Matyszekiel (Eds.). *Game Theory and Mathematical Economics*. Banach Center Publications vol. 71. Warsaw. Institute of Mathematics of the Polish Academy of Sciences.
- 1995 "The Principle of Equal Dependence for Profit Pool Networks." Pp. 199–214 in *Proceedings of the International Conference on Social Networks, London, July 1995*, vol. 3. London: Greenwich University Press.
- 1992 "Political Groupings in Post-communist Poland: June 1989 – January 1992." Pp. 65–87 in *Beyond Solidarność. Essays on Poland's Past and Present*. Ed. by G.C. Boehnert and T. Sasińska-Klas. Guelph, Ontario 1992: Guelph University Press.

Computer programs (see [QBasic Programs](#) on the author's website)

- 2004 POWERIND. Program for computing voting power indices.
- 1993-2003 NETAID. Program for analysis of exchange networks.
- 2000 HDWRITER. Program for creating databases to be processed by SPSS.

5. PROFESSIONAL ACTIVITIES

Research interests

Mathematical sociology. Applications of graph theory and game theory in the social sciences (see also [Exchange Networks](#) and [Voting Games](#) on the author's website). Theory and experimental research in group processes. Methodology of the social sciences. Linguistic models in the social sciences.

Courses taught

Statistics. Methodology of Social Research. Microsociology and Group Processes. Game and Decision Theory for the Social Sciences. Introductory Social Network Analysis. Theory and Experimental Research on Exchange Networks (a course for foreign students taught in English at Jagiellonian University in 2006).

Participation in research grants from Polish National Committee for Scientific Research (KBN)

- 2000-2001 Grant no. 1 H02E 007 15 for Krzysztof Gorlach. Project title: "Polish Family Farms Facing Globalization." Statistical consultant.
- 1998-1999 Grant no. 1 H02E 001 14 for Jacek Szmatka. Project title: "Conflict in Social Networks. Theory and Experiments." Member of the research team.
- 1994-1996 Grant no. 1P109 034 07 for Jacek Szmatka. Project title: "Network Interaction Theory. New Research on Power in Social Networks". **Co-principal investigator**.
- 1991-1993 Grant no. 1 0112 91 01 for Jacek Szmatka. Project title: "Toward a Theoretical Research Program of the Dynamics of Social Structure". Member of the research team. First editor of the book published as the output of the project.
- 1976-1980 Grant R.III.9.4.2 from Polish Ministry of Education. Project title: "Graph Theory and Its Implications for Microsociology". Principal investigator.

Awards

Award for the best published paper in the social sciences and humanities in the annual competition organized by the Association of the Jagiellonian University Young Faculty (1988)
• Award of the Ministry of Science and Education for the contributors to the volume *Elements of Dialectical Sociology*, ed. by P. Sztompka (1982)

Membership in Polish professional associations and committees

- 1978– Member of **Polish Sociological Association**. Secretary of the Cracow Branch: 1979–1980; Vice-president of the Cracow Branch: 1986, 1990, 1995. Member of the PSA Audit Committee: 1993–1995. Member of the PSA Court of Honor : 1997–2002. Member of the Znaniecki Prize Jury (PSA annual Master's thesis competition): 1999.
- 1997–2007 Member of the editorial committee for the Encyclopedia of Sociology.

Most important paper presentations in Polish (titles translated into English)

- 2016 "Prehistory and Follow-up of Tönnies' Typology of Forms of Human Bonds." 16th All-Polish Sociological Congress, Gdańsk, September 14–17, 2016, Thematic Group: "Wandering Concepts in the Social Sciences."
- 2007 "On the Understanding of the Adjective 'Social' in Some European Languages, in Old Masters of Social Theory, and in Social Network Analysis." 13th All-Polish Sociological Congress, Zielona Góra, September 13–15, 2007. Thematic Group: "Discourse Analysis in and for Sociology."
- 2006 "On Winning and Blocking Power in Voting Games." 2nd All-Polish Symposium "Physics in Economics and the Social Sciences." Kraków, April 21–22, 2006.
- 2000 "On Power Distribution Anticipated by Potential Bargainers in a Network Exchange System." 11th All-Polish Sociological Congress. Rzeszów, September 20-23, 2000. Thematic group: "Experimental Research on Group Processes."
- 1997 "Theoretical Sociology as a Normal Science. A Utopian Dream or a Chance That Can Become Reality?" 10th All-Polish Sociological Congress, Katowice, September 22–25, 1997. Symposium I (semi-plenary session): "Sociology 1997 – state of the discipline."
- 1990 "Mathematical Modeling of Exchange Systems in Networks. Axiomatic Method and Experimental Paradigm." 8th All-Polish Sociological Congress, Toruń, September 19-22, 1990. Working group "Contemporary Microsociology."
- 1980 "On the Concept of Structure and Isomorphism in the Social Sciences. A Combinatorial Point of View." All-Polish conference "Mathematical Models in the Social Sciences." Nieborów, April 24-26, 1980.

6. INTERNATIONAL EXPERIENCE

Visiting professorship

- 1998 University of British Columbia, Vancouver. Course "Experimental Research in Sociology" taught at extra-session studies.

Papers presented at international conferences

- 2010 "How Main European Languages Conceptualize the Social. A Case of Linguistic Relativity." 17th World Congress of Sociology, Gothenburg (Göteborg), Sweden, July 11–17, 2010. Session of the Research Committee 42 "Social Psychology."
- 2007 "Blocking Minorities and the Distribution of Blocking Power in Voting Systems Used by or Designed for the EU Council." International Workshop "Distribution of Power and Voting Procedures in the European Union", European Centre Natolin, Warsaw, October 12–13, 2007.

- 2004 "A Graph-theoretic Characterization of the Core in a Homogenous Generalized Assignment Game." International conference "Game Theory and Mathematical Economics." Warsaw, September 6–10, 2004 • "On Three Mathematical Theories of Power in Exchange Networks." Fourth International Conference on Theory and Research in Group Processes and Social Psychology. Kraków, June 23–25, 2004.
- 1999 "Expectations of Power Distribution in Exchange Networks." Third International Conference on Theory and Research in Group Processes, Kraków, June 14-17, 1999.
- 1998 "Varying Size of Weak Power in Simplest Exchange Networks: Theory and New Experiments." (with Jacek Sztatka as 2nd author and Joanna Mazur as 3rd author). American Sociological Association 93rd Annual Meetings, San Francisco, August 21-25, 1998. Regular Session: "Group Processes: Theory and Experiment on Power and Exchange."
- 1996 "Is the Dynamics of Exchange Processes Dependent on a Specific Negotiation Protocol?" First International Conference on Theory and Research in Group Processes, Kraków, June 18-21, 1996 • "Methodological Considerations in the Study of Conflict in Networks." (with Jacek Sztatka as 1st author, John Skvoretz as 2nd author, and Joanna Mazur as 4th author). American Sociological Association 91st Annual Meeting, New York, August 16-20, 1996. Regular Session: "Group Processes: New Directions."
- 1995 "The Principle of Equal Dependence for Profit Pool Networks." International Conference on Social Networks, London, University of Greenwich, July 6-11, 1995.
- 1994 "Toward a Theory of Equilibrium in Network Exchange Systems: Mathematical Development of Equal Dependence Formulation." 13th World Congress of Sociology, Bielefeld, Germany, July 18-23, 1994. Session of the Research Committee 42 "Social Psychology." • "Network Conflict Theory. Setting a Theoretical Framework." (with Jacek Sztatka as 1st author). American Sociological Association 89th Annual Meetings, Los Angeles, August 5-9, 1994. Round-table session.
- 1993 "A Tentative Formalization of Network Exchange Theory". 31st Congress of the International Institute of Sociology, Paris, June 21-25, 1993. Conference „Theory Use and Theory Development”, session 4 (chaired by the author): „New Directions in Sociological Theory.”
- 1982 "On the Concept of Structure in the Social Sciences and in Mathematics." International Conference "Varieties of Structural Approach in Sociology." Inter-University Center, Dubrovnik, August 27-31..
- 1974 "Measures of Association for Nominal Variables." 7th UNESCO International Seminar on the Use of Mathematics in the Social Sciences, Jabłonna, July 15–August 13, 1974.

Other

- 1991,1994 Paper presentations to the faculty at the Department of Sociology, University of South Carolina.
- 1984,1985 Paper presentations at Polish-Italian Sociological Seminars, University of Rome, Rome, Italy.
- 1989/1990 Scholarship from the University of Wisconsin-Stevens Point. Five months stay in the USA. Participation in James Coleman's seminar on mathematical sociology at the University of Chicago.

Membership in international professional associations

- 2002– Member of **International Network for Social Network Analysis**.
- 1993– Member of **International Sociological Association**. Research Committee 42: "Social Psychology" (member of the board: 1994–2002). RC 45: "Rational Choice".



Last update, November 7, 2016