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Personal Data

Birth Date and Place: Nov. 30, 1941 in Ludwigshafen/Rhein/Germany.
Married to Barbara Dorothea Tolk since Nov. 5, 1969
One Child Julius Uriah, born Jan 30, 1978

Educational Background

Ph.D. (1974)	University of California, Berkeley
Master of City Planning (1972)	University of California, Berkeley
Master of Architecture (1969)	University of California, Berkeley
Diplom-Ingenieur (1968)	University of Stuttgart, Germany

Honors; Scholarships

Advisor to the Studienstiftung des Deutschen Volkes (the Study Foundation of the German People, closest equivalent is Phi Beta Kappa) (1982 - 1988)
Fulbright Professor, University of California, Berkeley, 1980/81
Mellon Fellowships (1971-1974)
Scholarship, Studienstiftung des Deutschen Volkes (1970-1971)
Scholarship, German Academic Exchange Service (1968-1969)
Member, Studienstiftung des Deutschen Volkes (1964-1974)

Languages

German, English, French (all fluent), Italian (reading)

Membership in Professional and Academic Associations

American Economic Association
Econometric Society
European Association for Research in Industrial Economics
European Economic Association
Regional Science Association
Verein für Socialpolitik

Academic Experience

Spring 2004	Visiting Professor, Tel Aviv University
Spring 2005	
1992–93	Chair, Faculty of Economics, University of Mannheim
2003-06	
1991–92	Vice Chair, Faculty of Economics, University of Mannheim
2001-03	
1988 -	Full Professor, Faculty of Economics and Statistics, University of Mannheim (Emeritus since 1/2010)
1981-82	Vice Chair, Department of Economics and Social Sciences, University of Dortmund
1980-81	Visiting Professor, University of California, Berkeley
1979-80	Chair, Department of Economics and Social Sciences, University of Dortmund
1976-88	Full Professor, Economic Theory and Urban Economics, University of Dortmund
Summer 1976	Visiting Research Fellow, Electronics Research Laboratory, University of California, Berkeley
Summer 1977	
1975–76	Research Associate, Center for Operations Research and Econometrics (CORE), Université Catholique de Louvain, Belgium
1975	Lecturer, Department of Economics, University of Bonn
1974	Lecturer, Department of Urban Planning, Technical University of Aachen
1973-74	Research Assistant (Prof. P.P. Varaiya), Department of Electrical Engineering and Computer Sciences, University of California, Berkeley
1972-73	Teaching Associate, Department of City and Regional Planning, University of California, Berkeley
1969-70	Lecturer, Department of Architecture, University of Stuttgart
1965-68	Teaching and research assistant, Department of Architecture, University of Stuttgart

Professional Experience

1988 - 1996	Scientific consultant, empirica, Urban and Regional Research, Bonn/Berlin
1983 - 1987	Scientific consultant, Institute for Real Estate Research, Göttingen
1975 - 1982	Consultant on housing market research and policy, Federal Department of Housing and Urban Development, W.-Germany
1974 - 1975	Official advisor, Division of Housing, Federal Department of Housing and Urban Development, W.-Germany
1974 - 1975	Consultant on economic policy, The Chancellor's Office, Federal Government, W.-Germany
1972 - 1973	Member of project group "BART Impact Studies", Institute of Urban and Regional Development, UCB, for the Metropolitan Transportation Commission of the San Francisco Bay Area
1971 - 1972	Member, project group "Cost Benefit Analysis in Vocational Rehabilitation", Institute of Urban and Regional Development, UCB, research sponsored by the US Department of Health, Education and Welfare
1970	Production of a series of six half hour films on "Urban and Regional Development Planning in W.-Germany" for the W.-German Television Cologne (together with Gerhard Curdes)

Research Interests

Microeconomic Theory
Industrial Organization
Economic Geography
Housing and Labour Market Analysis

Major Research Grants

Governance and the Efficiency of Economic Systems, Special Research Unit involving Berlin, Bonn, Mannheim and Munich Departments of Economics, sponsored by DFG Germany, Team Leader 2004 - 2007; Mannheim Team Leader 2008 - 2011, PI 2012 -

Competition Policy in International Markets, Research Network, sponsored by EU (RTN), Mannheim Team Leader, 2003 - 2007

ENTER Marie Curie Training Site (MCTS), sponsored by EU (RTN), 2000 - 2004

The Economic Geography of Europe: Measurement, Testing and Policy Simulations, Research Network, sponsored by EU (RTN), Mannheim Team Leader, 2000 – 2004

The Evolution of Market Structure in Network Industries, Research network, sponsored by EC (TMR), Mannheim Team Leader, 1997 - 2003

Industrial Economics and Input Markets, Research Network, sponsored by NSF Germany, PI, 1996-2000

The New Economic Geography of Europe: Market Integration, Regional Convergence, and the Location of Economic Activity, Research Network, sponsored by the EC (HCM), Mannheim Team Leader, 1995-97

Imperfections in Housing Market Adjustment, Sponsored by the Federal Ministry of Housing and Urban Development, 1994

International Comparison of Housing Markets: Germany, Japan, and the U.S. Sponsored by NSF Germany, 1994-96 (held with Axel Börsch-Supan and Yoshitsugu Kanemoto)

Innovation and Differentiated Product Markets, Sponsored by NSF Germany, 1993-95

Economics of Aging: International Comparisons, Sponsored by NIA USA through NBER (held with Axel Börsch-Supan), 1990-93

Microeconomic Analysis of the Job Generation Process, Sponsored by the Volkswagen-Foundation, 1989-1994

General vs. Dedicated Savings: An Analysis of the W.-German Bausparkassensystem, Sponsored by the Association of Buildings Societies (with Axel Börsch-Supan, University of Mannheim), completed 1990

Quantitative Housing Market Analysis, Sponsored by the NSF/W.-Germany and the Federal Department of Housing and Urban Development, grant held with professors Kain, Harvard University; McFadden, MIT, and Dr. Struyk, The Urban Institute, completed 1989

Market Imperfections and Housing Choices, Sponsored by NSF/USA, through the NBER (held with professors Börsch-Supan and Wise, Harvard, and McFadden, MIT), completed 1989

Housing Demand Forecasting Model, Sponsored by the Federal Department of Housing and Urban Development, W.-Germany, completed 1984

Urban Housing Market Analysis: A Cross Sectional Comparison, Sponsored by the Federal Department of Housing and Urban Development, W.-Germany, completed 1980

Organization of Conferences and Workshops

Incomplete Contracts: Theory and Experiments (with Leonardo Felli and Christian Zehnder), Summer School, Special Research Unit Governance and the Efficiency of Markets, August/September 2012

Incentives and Behavioral Economics

(with Uri Gneezy and Eyal Winter)

Summer School, Special Research Unit Governance and the Efficiency of Markets, August 2010

Asymmetric Information and Learning in Financial Markets: Theory and Time Series Econometrics

(with Albert Menkveld and Xavier Vives),

Summer School, Special Research Unit Governance and the Efficiency of Markets, August 2008

Contract Theory, with Applications to the Theory of the Firm and Corporate Finance (with Patrick Bolton and Mathias Dewatripont)

Summer School, Special Research Unit Governance and the Efficiency of Markets, August 2007

Governance and the Efficiency of Economic Systems,

Annual Conferences, Special Research Unit Governance and the Efficiency of Economic Systems, March 7-9, 2007, sponsored by the Deutsche Forschungsgemeinschaft

Industrial Organization: Theory, Econometrics, and Anti Trust Policy

(with Ariel Pakes and Patrick Rey),

Summer School, Special Research Unit Governance and the Efficiency of Markets, August/September 2005

Innovation, Location and European Integration

(with Richard Baldwin and Henry Overman)

Summer Workshop for Young Economists within the RTN Network "The Economic Geography of Europe: Measurement, Testing and Policy Simulations, Mannheim, June 2003, sponsored by CEPR and ZEW

7th ENTER Jamboree (European Network for Training in Economic Research)

Mannheim, January 2001

Industrial Structure and Input Markets, Mannheim, May 1998 and May 2000,

Conferences sponsored by CEPR, DFG and ZEW

Industrial Structure and Input Markets", Heidelberg, January and November 1996,

May and November 1997, Conferences sponsored by DFG

Economic Forces of Agglomeration, Heidelberg, May 1995, CEPR Workshop sponsored by EC (HCM)

Dynamics of Employment and Industry Evolution, Mannheim, January 1995, sponsored by Volkswagen-Foundation

1st ENTER Jamboree (European Network for Training in Economic Research)

Mannheim, May 1994, sponsored by EC (HCM)

Housing Market Analysis, Cambridge/Mass, August, 1985, Co-organizers: D. McFadden (MIT), D. Wise (Harvard), sponsored by NBER

Existence of Equilibria in Spatial Economies, Nordkirchen/W.-Germany, May, 1984,

Sponsored by the delegate on the maintenance and development of relations between the universities of Northrhine-Westfalia, the Kingdom of the Netherlands and the Kingdom of Belgium

Housing Markets: Theory and Econometrics, Pechelbronn/France, June 1982,

sponsored by NSF/Germany

German-American workshop on urban housing market simulation models,

Heidelberg, March 1979, sponsored by the Federal Department of Housing and Urban Development, W.-Germany

Other Academic Activities

Senior Member, Mannheim Centre for Competition and Innovation, 2011-

Visiting Professor, European School for Management and Technology (ESMT), 2009-

Member of Executive Committee, Association for Competition Economics (ACE), 2007 - 2010

Programme Chair, Mannheim node, European Network for Training in Economic Research (ENTER), 1992 – 2004

Panel member „Human Capital and Mobility“, and „Training and Mobility of Researchers“ Programs, DG XII, European Commission (1993-1999)

Member, Economic Advisory Panel, DG III, European Commission (1993-1999)

Research Associate, Centre for European Policy Research, London, (1995-)

Research Professor, ZEW (Centre for European Economic Research), Mannheim, (1991-)

Editor, Regional Science and Urban Economics, (1987- 2003)

Associate Editor, Regional Science and Urban Economics, (1980-87)

Member, Editorial Advising Board, Recherches Economiques de Louvain, (1988 - 1992)

Referee for Annales d'Économie et de Statistiques, Annals of Regional Science, Canadian Journal of Economics, Econometrica, European Economic Review, Economic Journal, German Economic Review, IfO-Studien, International Journal of Industrial Organization, Journal of Economics, Journal of Economics and Business, Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of International Economics, Journal of Optimization Theory and Applications, Journal of Public Economics, Journal of Regional Science, Journal of Urban Economics, National Tax Journal, RAND Journal of Economics, Review of Economic Studies, Small Business Economics, Zeitschrift für Nationalökonomie, Zeitschrift für Wirtschafts- und Sozialwissenschaften

Book Manuscript Referee for Springer Scientific Publishers, North Holland –Elsevier, Academic Press, Kluwer

Participation in Programme Committees: Econometric Society, European Meetings 1988; European Economic Association, 1st, 4th and 14th Annual Congresses, 1985, 1989 and 1999, World Congress of the International Economic Association 1992

Member of Doctoral Studies Programme, Faculties of Economics and Business Administration, University of Mannheim, (1992 -)

Coordinator in charge of the Mannheim component) of ENTER (European Network for Training in Economics Research), Sponsored by ERASMUS, HCM, and the Marie Curie Program of the EU. Participating faculties: Universitat Autònoma de Barcelona, Université Libre de Bruxelles, University of Mannheim, Université de Toulouse I, CentER Tilburg, University College London, University of Stockholm and Stockholm School of Economics, 1992-2004

Publications

Books and Monographs

"Research in the Economics of Housing Markets", Symposium Issue, Regional Science and Urban Economics, Editor and Contributor of introductory paper, 1990

"Location, Spatial Pricing, and Spatial Competition", Symposium Issue, Regional Science and Urban Economics, Editor and Contributor of introductory paper, 1989

"U.S. and W.-German Housing Markets: Analytic Comparisons" (Co-editor with Raymond Struyk, contributor of two Papers), Washington, The Urban Institute Press, 1985 and Heidelberg: Springer, 1986

"Existence of Spatial Equilibria", Special issue, Regional Science and Urban Economics, Editor and Contributor of two papers, 1985

"Microeconomic Models of Housing Markets", (Editor and Contributor of a paper on "Microeconomic Models of Housing Markets: Towards a Conceptual Framework"), Heidelberg/New York: Springer, 1985

"Synopsis regionaler Wohnungsmarktanalysen" (Urban Housing Market Analyses: A Cross-Sectional Comparison), (with Team), Bonn: Federal Department of Housing and Urban Development, Research Publication Series, 1985

"Modelle zur Prognose der regionalen Wohnungsnachfrage: Vergleich und Bewertung", (Regional Housing Demand Forecasting Models: Comparison and Evaluation), (with J. Gabriel and Th. Meintz), Bonn: Federal Department of Housing and Urban Development, Research Publication Series, 1983

"Mathematische Optimierung und mikroökonomische Theorie" (Mathematical Optimization and Microeconomic Theory) (with N. Schulz), Heidelberg/New York: Springer, 1981

"Simulationsmodelle regionaler Wohnungsmärkte" (Housing Market Simulation Models), Proceedings of a German-American Workshop held in March, 1979, (Editor and Contributor of a paper on "Conceptual Aspects of Quantitative Housing Market Models"), Bonn: Federal Department of Housing and Urban Development, Research Publication Series, 1981

"Umweltplanung in der Industriegesellschaft" (Environmental Planning in the Industrial Society) (with G. Curdes), Hamburg: Rowohlt, 1970

Papers Published in Refereed Journals and Books

“The Actual Structure of eBay’s Feedback Mechanism and Early Evidence on the Effect of Recent Changes,” (with T. Klein, C. Lambertz and G. Spagnolo, *International Journal of Electronic Business*, Vol. 7, 2009, 301-320.

“Labor Pooling in R&D Intensive Industries”, (with H. Gerlach and Th. Roende), *Journal of Urban Economics*, Vol. 65, 2009, 99 - 111

“Platform Ownership” (with V. Nocke and M. Peitz), *Journal of the European Economic Association*, Vol. 5, 2007, 1130 - 1160

“Project Choice and Risk in R&D” (with H. Gerlach and Th. Roende), *Journal of Industrial Economics*, vol. 53, 2005, 53 – 81

„Coalition Building in a Spatial Economy", (with J. Henkel and U. Walz), *Journal of Urban Economics*, Vol. 47, 2000, p. 136-163,

„Legal Form, Growth and Exit of West-German Firms- Empirical Results for Manufacturing, Construction, Trade, and Service Industries" (with D. Harhoff and M. Woywode), *Journal of Industrial Economics*, Vol. XLVI, December 1998, 453-488

„On Income Tax Avoidance: The Case of Germany“ (with O. Lang and K.H. Nöhrbass), *Journal of Public Economics*, 1997, 327-347

„Do Consumers Search for the Highest Price? Oligopoly Equilibrium and Monopolistic Optimum in Differentiated Products Markets" (with N. Schulz), *RAND Journal of Economics*, vol. 27, Autumn 1996, 542-562

„Unternehmens- und Beschäftigungsdynamik in Westdeutschland: Zum Einfluß von Haftungsregeln und Eigentümerstruktur“ (Firm and Employment Dynamics in West Germany: On the Impact of Liability Statutes and Ownership Structure) (with D. Harhoff), *Ifo-Studien*, vol. 41, 1995, 17-50

„Regulation of the Market for Electricity in the Federal Republic of Germany" (with J. Müller), in R. Gilbert and E. Kahn (eds): *International Comparisons of Electricity Regulation*, Cambridge: Cambridge University Press, 1996, 277-311

„Life Cycle Savings and Consumption Constraints: Theory, Empirical Evidence, and Fiscal Implications" (with A. Börsch-Supan), *Journal of Population Economics*, vol. 4, 1991, 233-255

„Do Savings Programs Dedicated to Home-Ownership Increase Personal Savings?" (with A. Börsch-Supan), *Journal of Public Economics*, vol. 44, 1991, 265-297

„Recent Issues in the Economics of Housing Markets: Introduction", *Regional Science and Urban Economics*, vol. 20, # 1, June 1990, 1-9

„Good and Bad Competition in Spatial Markets for Search Goods: The Case of Linear Utility Functions" (with N. Schulz), *Annales d'Economie et de Statistique*, 15/16, Juillet-Decembre 1989, 113-136

„Location, Spatial Pricing, and Spatial Competition: Introduction", *Regional Science and Urban Economics*, vol. 19, # 1, February 1989, 1-4

„Theories of Urban Business Location" in Mills, E. (ed.) *Handbook of Urban Economics*, Amsterdam, North Holland, 1987

- "Localisation des Oligopoles et Marchés du Travail Locaux" (with N. Schulz) *Revue Economique*, 36, 1995, p. 103-134
- „Existence of Equilibria in Spatial Economies: Presentation", *Regional Science and Urban Economics*, vol. 15, # 2, June 1985
- „On the Non-Existence of Oligopolistic Equilibria in Differentiated Products Spaces", (with N. Schulz), *Regional Science and Urban Economics*, vol. 15, # 2, June 1985
- „Die Bauwirtschaft" (The Construction Industry), contribution to the *Encyclopedia in Economics of the Herder-Verlag*, Freiburg i.Br., 1985
- „Zur Wirkung des II. Wohnraumkündigungsschutzgesetzes: Eine kontrakttheoretische Analyse" (Impacts of the German Rent Control Legislation: A Contract Theoretic Analysis), (with W. Eckart and N. Schulz), in: Neumann, M. (ed): *Ansprüche, Eigentums- und Verfügungsrechte*, Berlin, Duncker und Humblodt, 1985
- „A Note on the Microeconomics of Migration", in: *Journal of Urban Economics*, vol. 14, # 5, September 1983, 318-326
- „Local Collective Goods: A Critical Reexamination of the Tiebout Model", WP 347, Institute of Urban and Regional Development, University of California, Berkeley, forthcoming in: Thisse, J.; Zoller, H.(eds): *Spatial Analysis of Public Facilities*, Amsterdam, North Holland, 1983
- „Consumer Search and the Spatial Distribution of Retailing", *Journal of Industrial Economics*, vol. 31, # 1/2, September/December 1982, 97-114.
- „Location and Spatial Pricing Theory with Nonconvex Transportation Cost Schedules", *Bell Journal of Economics*, vol. 13, # 2, Autumn 1982, 575-582
- „Economics of Information: Examples in Location and Land Use Theory" (with P.P. Varaiya, in *Regional Science and Urban Economics*, vol. 8, (1978), 43-56
- „Housing Replacement in the Presence of Externalities" *Recherches Economiques de Louvain*, vol. 42, # 3 (1976), 199-224
- „Public Goods with Consumption Indivisibility" (with Urban Systems Group), *Regional Science and Urban Economics*, vol. 6, (1976), 45-50
- „Dynamic Aspects of Public Goods" (with B. v. Rabenau), *Bell Journal of Economics and Management Science*, vol. 5, # 2, Autumn 1974, 651-669

Papers Published in Non-refereed Journals and Books

“Fusionen in der Automobil-Zulieferindustrie: Fallstudie und Theorie” (Mergers in the Automotive Upstream Industry: Case Study and Theory)(with M. Cherdron), in: *Fusionen*, W. Franz, H.J. Ramser and M. Stadler (ed's), Tübingen: Mohr-Siebeck, 2002, 117-137

„Divergenz und Konvergenz der Regionalen Wirtschaftsentwicklung aus der Sicht der Raumwirtschaftstheorie“ (Divergence and Convergence of Regional Development: A View from Location Theory), in: Vosgerau, H. (ed.): *Zentrum und Peripherie – Zur Entwicklung der Arbeitsteilung in Europa*, Berlin, Duncker & Humblot, 1996

„Entwicklung und Stand der Regionalökonomischen Forschung“ (Recent Develop-

„Wohnungsmarktforschung und regionale Planung" (Housing Market Research and Regional Planning), in: Bundesforschungsanstalt für Landeskunde und Raumordnung (ed.): *Wer forscht was für die räumliche Planung?*, Bonn, 1978, 221-226

Architectural projects, papers on design methods, in: *Aujourd'hui*, vol. 10, Oct. 1967, 150; *Bauen und Wohnen*, vol. 23, July, 1969, VII 1-4; *Arch +*, vol. 2, No 5, Jan 1969, 7-28; *Arch +*, vol. 2 No 7, 1969, 69-70; *Arch +*, vol. 2, No 8, 34.

Unpublished Papers

“Industry Structure and Pricing over the Business Cycle” (with Yossi Spiegel), mimeo

“A Dynamic Model of Predation” (with Roy Shalem and Yossi Spiegel), mimeo

“Strategic Backward Integration” (with M. Hunold and L.-H. Röller), CEPR Discussion Paper 7158

“Competition and Trust: Evidence from German Car Manufacturers” (with L. Felli and J. Koenen), CEPR Discussion Paper 8265

“Certification in Concentrated Markets” (with R. Strausz), CEPR Discussion Paper 8170

“Ownership and Control in a Competitive Industry” (with H. Karle and T. Klein), CEPR Discussion Paper 8277

“Upstream Relationships in the Automotive Industry: A Contractual Perspective” (with F. Müller and F. Wachtler), 2008, mimeo

“Firm Size, Productivity and Wage” (with M. Ruckes and U. Schimmel), mimeo

“Global Competition and Local Markets” (with P. Legros), 2004, CEPR Discussion Paper 1455, rev. 2012

“Reputation Building in anonymous Markets: Evidence from eBay” (with T. Klein, Ch. Lambertz and G. Spagnolo), 2006, CEPR Discussion Paper, re. 2007

“Competing Platforms” (with V. Nocke and M. Peitz), 2006

“Competition over the Business Cycle under Cost Asymmetries” (with Y. Spiegel), 2004

“Bargaining, Mergers, and Heterogeneous Outsiders” (with M. Cherdron), 2002

“On the Efficiency of Research Joint Ventures” (with H. Röller), 2002, mimeo

„Advertising (Innovation) and Product Differentiation: Monopoly Welfare Dominates Duopoly“ (with N. Schulz), 2000

„Is There Scope for Fragmentation in Integrated Financial Markets?“ (with Th. Gehrig and X. Vives), 1998

„Sequential Entry and Choice of Technique in a Market for Differentiated Products" (with N. Schulz), 1998

„Vertical Differentiation and Supply Dynamics in Markets for Durable Commodities: The Case of Housing“ (with M. Blonski), 1997