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Curriculum Vitae

Dag Einar Sommervoll

Education

- **Ph. D.**, 1997. Department of Mathematics, University of Oslo (UiO).
- **Cand. Scient**, 1989. Department of Mathematics, UiO.

Post-doctoral studies

- **Regression analysis** (ST 215) Department of Mathematics UiO 2003.
- **Economics II (mellomfag)** Department of Economics UiO 2001.
- **Economics I (grunnfag)** (MØ 101, MØ102, MØ103, MA 106) Dep. of Mathematics 1998-2000.
- **Index theory and Measurement Economics.** Nordisk Statistikkermøte, Åbo, Finland 2004.

Professional experience

- **Visiting Scholar**, Australian Housing and Urban Research Institute, RMIT University, Melbourne, Australia 2008-2009.
- **Research Fellow** Department of Research, Statistics Norway (SSB), August 2003- . Field: Housing economics, taxation and econometrics.
- **Visiting Scholar**, Department of Economics, Stanford University, Palo Alto, California 2003-2004.
- **Research Fellow** Department of Research, Statistics Norway (SSB), 2001-2003.
- **Associate Professor** , 1999-2000. Oslo University College (HiO) (40%).
- **Junior Research Fellow** 1998-01.
- **Professor visitante (CNPq- Post Doc)**, 1997-1998. Universidade Federal de Pernambuco (UFPE), Recife, Brazil.
- **Post Doc**, 1997 (January-June). The Mittag-Leffler institutte, Stockholm, Sweden.
- **Associate Professor**, 1995-1996. Buskerud University College (HiB).
- **NFR-Scholar**, 1994-1995. Department of Mathematics. UiO.

Teaching

- Instructor MAT1700 V2007 (Macro/Micro Economics) UiO.
- Instructor Søk9354 (Micro economics) BI Norwegian School of Management 2006.
- Instructor Master Thesis Course in Empiric Methods BI Norwegian School of Management 2006.

- Instructor HiO, 1999-2000. Mathematics/Math Didactics.
- Instructor UFPE 1997-1998. Algebra, Abelian and non Abelian groups, Gröbner-bases.
- Instructor The Mittag-Leffler Institute, 1997. String and mirror symmetry.
- Instructor HiB, 1996-1997. Calculus, Differential equations, linear algebra, combinatorics and probability theory.

Student Supervision

Kari Anne Haugen (Master Thesis Housing Economics 2006).
Heidi Vegsund (Master Thesis Housing Economics 2007)

Scholarships

- * Scholarship *Professor Wilhelm Keilhaus Minnefond*, 2008, Oslo.
- * Scholarship *Professor Wilhelm Keilhaus Minnefond*, 2007, Oslo.
- * Scholarship *Norges Banks Fond til økonomisk forskning*, 2007, Oslo.
- * Scholarship *Professor Wilhelm Keilhaus Minnefond*, 2007, Oslo.
- * Scholarship *Professor Wilhelm Keilhaus Minnefond*, 2006, Oslo.
- * Scholarship *Norges Banks Fond til økonomisk forskning*, 2006, Oslo.
- * Scholarship *Professor Wilhelm Keilhaus Minnefond*, 2005, Oslo.
- * Scholarship *Norges Banks Fond til økonomisk forskning*, 2005, Oslo.
- * Scholarship *Professor Wilhelm Keilhaus Minnefond*, 2003, Oslo.
- * Scholarship *Ingegerd og Arne Skauges forskningsfond*, 2003, Oslo.
- * *J. William Fulbright Scholarship*, 2003-2004, The Bureau of Educational and Cultural Affairs, United States Dept. of State.
- * Ph. D. Scholarship *Norwegian Research Counsel*.

Seminars/Conference Presentations Mathematics/Statistics

- * Gröbnerbases and twoway tables, Meth. Seminar, Statistics Norway. 1999.
- * Um questao de correlacao (a question of correlation), Universidade Fed. de Paraiba. J. Pessoa, Brasil, 1998.
- * Conexoes entre Geometria e Estatistica. (Connections between algebraic geometry and statistics), Universidade Federal de Minas Gerais, Belo Horizonte, Brasil, 1998.
- * Rational Curves on K3-fibered CICY-threefolds. Algebra Conference, Inst. de Matematica Pura e Aplicada, Rio de Janeiro, Brasil 1997.
- * Isolated Rational curves on CY- threefolds. EUROPROJ-meeting, Alghero, Italia ,1997.
- * Mirror Symmetry and Reflexive polytopes II, strengteoriseminaret Mittag-Leffler Inst. Sverige,1997.
- * Mirror Symmetry and Reflexive polytopes I, strengteoriseminaret Mittag-Leffler Inst. 1997.
- * K3-fibered CICY-threefolds, Meeting in Singularity Theory, Kongsberg, Norge 1997.
- * Rational curves on Calabi-Yau threefolds, Geometrie algebrique en liberte, Marseille, Frankrike 1995.
- * Determinantal contractions and splittings of complete intersections CY-manifolds. Meeting in algebraic Geometry Oslo-Bergen-Stockholm, Bergen, Norge 1994.
- * Positive dimensional families of rational curves on Calabi-Yau manifolds. Tromsø, Norge, 1993.
- * The equivalence of families of nodal cubics on the Tian-Yau Calabi-Yau manifold. Meeting in Algebraic Geometry, University of Oslo, Oslo, Norway 1993.
- * Rational curves on a complete intersection Calabi- Yau threefold in $P^3 \times P^3$. Conference in enumerative geometry, Dyrkolbotn, Norway, 1993.
- * Modelling non response, Seminar on methods, SSB 1993.

Seminars/Conference Presentations Economics

- * Driven to Drink, Economics, Finance and Marketing Seminar, RMIT, Melbourne, 13.03.09
- * Home Equity Insurance, 2nd International Think Tank, House Prices and Risk, Melbourne, Australia 13.02.09
- * Sensitivity of debt demand to deductibility of home mortgage interest, Housing and Tax Symposium , Melbourne Law School 11.04.09.
- * Risiko i boligmarkedet, Boligbyggerdagene 15.04.08
- * International emission trading, w. Holtmark The Frisch Center, Oslo, 16.04.08.
- * True lies, Sannheter om boligmarkedet Eiendomsverdis Fagdag, Oslo 05.02.08
- * New kid in town: Discrimination in Rental Markets, ENHR-conference, Vienna, 2008.
- * Nothing to Remember, The Frisch Center, Oslo, 21.03.07.
- * A counterintuitive response to changed mortgage deductions? ENHR-conference, Edinburgh, 2007.
- * A counterintuitive response to tax incentives? The Norwegian Annual Meeting for Economists Tromsø 2007.
- * Skattereformen av 92 + økte boligpriser = ? [The Norwegian Tax Reform of 92] Avdelingsseminaret Bolkesjø 26.09.06.
- * De store tingene i livet: Bolig, skatt og kredittilpasning. [Housing, Tax and mortgage demand] Ministry of Finance, 18.09.06.
- * Endogenous Housing Market Cycles, ENHR-conference Copenhagen Feb.2006.
- * Endogene kreditmarkedssykler [Endogenous Housing Market Cycles] Norwegian Annual Meeting for Economists Bergen 2006.
- * Analyse av det norske leiemarkedet for boliger, [The Norwegian Housing Market] (w. Røed Larsen) Husbanken, Drammen 2005.
- * Boligpriser og adaptive forventninger, [House Prices and Adaptive Expectations] Avdelingsseminar Storefjell, Gol 2005.
- * Boligpriser, kpi og inflasjonsstyring, [House Prices, CPI and Inflation Targeting] Sosialøkonomenes høstkonferanse Oslo, 2005.
- * Hvordan måle boligpriser? [How to measure house prices?] Alledermøtet SSB, 14. mars 2005.
- * Hva er konsumprisindeksen i tilfelle en boligmarkedsboble? [Housing Market Bubbles and the CPI] (w. Røed Larsen) Norges Bank 08.02.05.
- * What is the CPI when there is a housing bubble? The answer central banks ignore to our peril, (w. Erling Røed Larsen) The Norwegian Annual Meeting for Economists 07.01.05.
- * Boligkonsum i kpi, [Housing Consumption in the CPI] Torsdagsseminar SSB 02.12.03.
- * Boligfesten nær slutten. Hvordan blir nachspielet? [The Norwegian Housing Market] Effs Høstseminar DnB Nor Øvre Slottsgate 3, Oslo.
- * Temporal aggregation in repeated sales models, Mikroøkonometriseminar, SSB 18.10.04, Oslo.
- * Bolig X, [House X] Avdelingsseminar for Forskningsavdelingen 2004, Åsgårdstrand 22.09.04.
- * Høna eller egget? [The Chicken or the Egg?] Boligmarkedet og konjunkturer, Konjunkturseminaret 2004 16.09.04 Ing. Hus, Oslo.
- * Boligbeskatning etter King, [Tax on Housing Consumption] Boligforum, SSB 2003.
- * Hvordan kan det være vanskelig å etablere seg på boligmarkedet i 2003? [How can it be difficult to buy a starter home in 2003?] Eiendoms og Byfornyelsesetaten, Oslo 2003.
- * Robust aggregering og metrikker på vektorrom, [Robust Aggregation and Metrics on Vector Spaces] Mikroøkonometriseminar, SSB, 2003.
- * Virrevandringer i boligmarkedet, [Random walk in Housing markets] Avdelingsseminar Rondablikk, Norge, 2002.
- * Virkninger på forbruksmønster, levestandard og klimagassutslipp av endringer i konsumentpriser, [Green Taxes on Consumption Goods] The Norwegian Annual Meeting for Economists, Bø, Norge, 2001
- * Virkninger på forbruksmønster, levestandard og miljø av endringer i skattesystem og teknologi, [Tax and Green House Gas Emissions] Forskersamling Bærekraftig produksjon og forbruk, Soria Moria, Oslo 2000.

- * Kan forbruket vris i mer miljøvennlig retning uten at det går på bekostning av levestandarden? [Green Taxes and Consumption] Forskningsavdelingens torsdagsseminar SSB 2000.
- * Common Knowledge, an Algebraic Approach, Seminar i mikroøkonometri, Stockholm, Sverige, 1999.

Professional Service

- Referee Journal of Real Estate Finance and Economics
- Referee Tidsskrift for den Norske Legeforening
- Member Fulbright Alumni Board Norge 2005- 2007.
- Reviewer for American Mathematical Society 1998-2008.
- Representative Norges Matematikkråd (The Norwegian Mathematics Counsel) 2004- 2008.
- Chair of Jury Forteller-konkurransen Astrofestivalen 2004-2006.
- Jury member Fortellerkonkurransen Astrofestivalen 2002.
- Board member Gaustadfunksjonærenes Borettslag 2001-2003.

Language abilities

- * Norwegian, English, German, Portuguese, (Spanish).

Publications and Manuscripts

- * Discrimination in Europe: Evidence from Rental Markets (c. Beatty) submitted to Journal of Urban Economics
- * International emission trading as a non-cooperative game. Effects on emissions, payoffs and efficiency (c. Holtmark)
- * Using House Prices to Compute the Price of Housing in the CPI (c. Timothy Beatty and Erling Røed Larsen) (Revise and resubmit Economic Letters)
- * The sensitivity of debt demand to the deductibility of mortgage interest (Sent to referees International Tax and Public Finance)
- * Påvirker flytting prisene? (c. Borgersen and Greibrokk) HiØ arbeidsrapport 2008:3.
- * Gjeldsrenter og skatt: Skattereformen av 1992 uten effekt på husholdningenes gjeld, Økonomiske Analyser 5/2007
- * På god fot? Hvordan relasjonen mellom utleier og leietaker påvirker husleien (c. Røed Larsen) Økonomiske analyser 4/2006
- * Driven to drink: Sin Taxes Near a Border (c. Beatty and Røed Larsen) (forthcoming Journal of Health Economics)
- * Counterintuitive response to tax incentives? Mortgage interest deductions and the demand for debt DP 492
- * Functions of aggregates, (Sent to referees Journal of Mathematical Economics)
- * Endogenous Credit Cycles DP 458 Statistics Norway 2006 (c. Borgersen and Wennemo) (forthcoming Journal of Credit and Finance,)
- * The impact on Rent from Tenant and Landlord Characteristics and Interaction, *Regional Science and Urban Economics*, 39 (2009) 316-322
- * Boligpriser, Førstegangsetablering og Kredittilgang Økonomisk Forum 2/2006 (c. T. Borgersen).
- * Measuring the Price of Housing Consumption for Self-Owners in the CPI (c. Timothy Beatty and Erling Røed Larsen) SSB Discussion Paper 427.
- * Leiemarkedsundersøkelsen 2005, SSB-rapport 2005/32 (c. Belsby, Holmøy, Johannessen, Røed Larsen, Sandberg, and Solheim).
- * Temporal Aggregation in Repeated Sales Models, *Journal of Real Estate Finance and Economics Vol 33 Issue 2 2006 s. 151-165.*

- * Boligprisene *Bo* 1/2005 s.14.
- * Inngangsbilletten øker mest *Samfunnspeilet* 6/2004.
- * Å selge bøker som biff, *Dagbladet* 29.09.04, s 32 (c. Røed Larsen).
- * Pyramidespill med boliger? *Dagens Næringsliv* 15.10.04.
- * Inequality of Housing? Evidence from Segmented House Price Indices (c. Røed Larsen), *Housing, Theory, and Society*, 2004, **21**: 2, s 77-88.
- * Hva bestemmer boligprisene? *Samfunnspeilet*, 2/2004 (c. Røed Larsen).
- * Hva er prisstigningen? *Eiendomsmegleren* Nr. 07/08 2004 (c. Røed Larsen).
- * Boligprisene på 1990-tallet *Økonomiske Analyser* 2/2004 (c. Røed Larsen).
- * Rising inequality in housing? Evidence from Segmented Housing Price Indices, Discussion Paper 363, Statistisk sentralbyrå 2003. (w. Røed Larsen).
- * Slutt på billige boliger i Oslo? OBOS-leiligheters prisutvikling 1991-2002 Notat 2004/50.
- * Til himmels eller utfor stupet. En katalogisering av forklaringer på stigende boligpriser Notat 64/2003 (w. Erling Røed Larsen).
- * Troll kan temmes. Kort innføring i Trollprogrammering Notat 2003/42.
- * Hvordan kan det være vanskelig å etablere seg i 2002? *Økonomiske Analyser* 6/2002 (c. Brekke)
- * Modeling Binary Panel Data with Nonresponse, Discussion Paper 297 Statistics Norway 2001 (w. Bjørnstad).
- * Klimagassutslipp, konsumentpriser og levestandard (w. Jørgen Aasness) *Økonomiske Analyser* 3/2001.
- Lavere bensinavgifter - god miljøpolitikk? (w. Torstein Bye and Øystein Døhl), *Sosialøkonomen*, 8, 2000.
- * Rational curves on a complete intersection Calabi-Yau threefold in $P^3 \times P^3$, *Pacific Journal of Mathematics*, Vol 192, 2 415-430 2000.
- * Isolated rational curves on K3-fibered Calabi-Yau threefolds *Manuscripta Mathematica*, 99 111-133 1999. (w. Ekedahl and Johnsen).
- * Virkninger på forbruksmønster, levestandard og klimagassutslipp av endringer i konsumentpriser Notat 2001/20 (w. Brynjar Indahl and Jørgen Aasness).
- * Rational Curves of higher degree on a complete intersection Calabi-Yau threefold I $P^3 \times P^3$. UiO Preprint Series No. 2 1994 Mat. Inst.
- * Rational Curves of low degree on a complete intersection Calabi-Yau threefold I $P^3 \times P^3$. UiO Preprint Series No. 11 1993 Mat. Inst.

Papers under preparation

- * Home Equity Insurance, (w. Gavin Wood)
- * Spatial and Temporal Aggregation in Repeated Sales Models (w. Gavin Wood)
- * Discrimination in Housing Markets

Reviews for American Mathematical Society

- * On some Properties of Explicit Toric Degenerations, M. Marichisio, V. Perduca (2006)
- * Stability Conditions on a Non-compact Calabi-Yau Threefold, T. Bridgeland (2006).
- * Quotients of E^n by a_{n+1} and Calabi-Yau manifolds, K. Paranjape, D. Ramakrishnan (2006).
- * Deformations of Calabi-Yau hypersurfaces arising from deformations of toric varieties, A. R. Mavlyutov (2005).
- * Rational Curves of degree 10 on a general quintic threefold, E. Cotterill (2005).
- * Some Calabi-Yau threefolds with obstructed deformations over the Witt vectors (2005).
- * Mixed toric residues and Calabi-Yau Complete intersections, V. V. Batyrev N. E. Materov (2004).
- * On embeddings in Toric prevarieties, J. Hausen, S. Schröder (2004).
- * Even sets of eight rational curves on a K3-surface, W. Barth (2003).
- * Polyhedral algebras, toric varieties... W. Bruns, J. Gubeladze (2002).
- * Polyhedral Algebras, Arrangements of Toric Varieties and their Groups, M.-H. Saito, N. Yui (2001).

- * Multiplicities of smooth rational curves, N. Tziolas (2001).
- * Inflections of Toric Varieties, D. Perkinson (2000).
- * Semiample hypersurfaces in toric varieties, A. R. Mavlyutov (2000).
- * Curves on K3-surfaces, X. Chen (2000).
- * AMS-review: The minimal model theorem for divisors of toric varieties, S. Ishii (2000).
- * Mirror Symmetry via 3-tori for a class of Calabi-Yau threefolds, M. Gross, P M. H. Wilson (1999).
- * AMS- review:Towards Clemens' conjecture in degrees between 10 and 24, T. Johnsen, S. L. Kleiman (1999).
- * Nonminimal rational curves on K3-surfaces, D. Coray, C. Manoil, I. Vainsencher (1998).

Book Reviews

- * Fooled by Randomness, Nassim Nicolas Taleb, Økonomisk Forum 6/2007
- * Freakonomics, Lewitt & Dubner kommer i Økonomisk Forum 2/2006.
- * Collapse, how societies choose to fail or succeed, J. Diamond Økonomisk Forum 7/2005.
- * Bubbles and how to survive them. First stocks. Then house prices, J. P. Calverley Økonomisk Forum 2/2005.
- * The New Financial Order: Risk in the 21st Century, Shiller Økonomisk Forum 3/2003.

References

- Director of Research Ådne Cappelen, Statistics Norway (tlf: 47 21 09 48 08, e-mail: cap@ssb.no).
- Professor Ragni Piene, Department of Mathematics, UiO (ragnip@math.uio.no).