

Serik Sagitov
Professor of Mathematical Statistics
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Mathematical Sciences
Chalmers University of Technology and
University of Gothenburg

Extended Curriculum Vitae 2019

Job Experience

2018-Present Vice-Head of the Department of Mathematical Sciences responsible for Utilization, Chalmers University of Technology and University of Gothenburg

2016-Present Head of the Division of Applied Mathematics and Statistics, Department of Mathematical Sciences

2015 Professor of Mathematical Statistics, Chalmers

2014-2016 Head of the Division of Mathematical Statistics, Department of Mathematical Sciences

2013-2014 Director of Graduate studies in Mathematical Statistics, Department of Mathematical Sciences, Chalmers University of Technology and University of Gothenburg

2009-2014 Bitr Professor of Mathematical Statistics, Chalmers

2007-2012 Director of Undergraduate Studies in Mathematical Statistics, Department of Mathematical Sciences, Chalmers University of Technology and University of Gothenburg

1999-2009 Associate Professor in Mathematical Statistics, Department of Mathematical Sciences, Chalmers University of Technology and University of Gothenburg

1997-1999 Guest researcher and lecturer at the Department of Mathematical Sciences, Chalmers University of Technology

1997 Vice-president of the trade company "BUTYA" (Almaty, Kazakhstan)

1995-1997 Part-time lecturer at KIMEP, Kazak Institute of Economics and Management (Almaty, Kazakhstan)

1984-1997 Researcher (junior, senior, leading) at the Institute of Theoretical and Applied Mathematics, National Academy of Kazakhstan (Almaty, Kazakhstan)

1991 autumn Guest researcher at the Department of mathematics,
1992 autumn Chalmers University of Technology and University of Gothenburg

1987 Postdoc at the Steklov Institute of Mathematics (Moscow, Russia)

1985-1988 Part-time lecturer in Probability and Mathematical Statistics at the Kazakh State University (Almaty, Kazakhstan)

Education and academic degrees

2007-2008 Completed the pedagogical program Diploma of Higher Education at Chalmers

1998 "Docent in Mathematical Statistics" academic degree at Chalmers

1995-1997 Intensive courses on Business Valuation, Real Estate Appraisal, Machinery and Equipment Appraisal, Turn Around Management, Project Appraisal, Entrepreneurship (Irkutsk, St. Petersburg, Russia; Birmingham University, UK; Babson College, USA; Almaty, Kazakhstan)

1990 "Senior Researcher" academic degree in Probability and Mathematical Statistics at the Soviet Academy of Sciences

1979-1983 Ph.D. degree in Probability and Mathematical Statistics at the Steklov Institute of Mathematics (Moscow, Russia)

1973-1978 Master degree in Probability at the Moscow State University, Department of Mechanics and Mathematics (Moscow, Russia)

1971-1973 Student at the Republican Physics-Mathematics School, secondary school with special emphasis on Mathematics and Physics (Almaty, Kazakhstan)

Scientific grants and awards

2016 Strömer-Ferrner Award from Royal Swedish Academy of Sciences

2011-2013 VR grant for the project "Stochastic models for gene and species trees"

2009-2010 Two travel grants from VR

2007-2010 The Bank of Sweden Tercentenary Foundation project "What is the Effective Size of a Varying Population in Long Range Balance"

2003-2005 The Bank of Sweden Tercentenary Foundation project "The History of Stochastic Population Processes" (project leader P.Jagers)

1997-1999 The Bank of Sweden Tercentenary Foundation project "Branching processes with dependencies" (project leader P.Jagers)

1993-1995 Soros Scientific Foundation project "Limit theorems in probability theory" (project leader V.Vatutin)

1991 Persidskij's Award for a Young Mathematician, National Academy of Kazakhstan

Most cited papers according to Google Scholar

https://scholar.google.se/citations?hl=en&user=o15IyG4AAAAJ&pagesize=100&view_op=list_works

Cited 315 times: Sagitov S. The general coalescent with asynchronous mergers of ancestral lines. *J. Appl. Prob.* 36 (1999) 1116-1125

Cited 231 times: Möhle M. and Sagitov S. A classification of coalescent processes for haploid exchangeable population models. *Ann. Prob.* 29 (2001) 1547-1562

Full list of papers

1. Sagitov S. and Jagers J. Rank-dependent Galton-Watson processes and their pathwise duals. *Advances in Applied Probability* 50A (2018) in press.
2. Lindo A. and Sagitov S. General linear-fractional branching processes with discrete time. *Stochastics* 90 (2018) 364-378.
3. Lindo A., Zuyev S., and Sagitov S. Nonparametric estimation for compound Poisson process via variational analysis on measures. *Statistics and Computing* 27 (2018) 563-577.
4. Sagitov S. and Minuesa C. Defective Galton-Watson processes. *Stochastic models* 33 (2017) 451-472.
5. Sagitov S. and France T. Limit theorems for pure death processes coming down from infinity. *J. Appl. Prob.* 54 (2017) 720-731.
6. Sagitov S. Tail generating functions for extendable branching processes. *Stoch. Proc. Appl.* 217 (2017) 1649-1675.
7. Sagitov S. and Lindo A. A special family of Galton-Watson processes with explosions. In *Branching Processes and Their Applications*. *Lect. Notes Stat. Proc.* (I.M. del Puerto et al eds.) Vol. 219 (2016) pp 237-254, Springer, Berlin.
8. Lindo A. and Sagitov S. Asymptotic results for the number of Wagner's solutions to a generalised birthday problem. *Statistics and Probability Letters* 107 (2015) 356-361
9. Bartoszek K. and Sagitov S. A phylogenetic confidence interval for the optimal trait value. *J. Appl. Prob.* 52 (2015) 1-18
10. Bartoszek K. and Sagitov S. A Consistent Estimator of the Evolutionary Rate. *J. Theor. Biol.* 371 (2015) 69-78
11. Sagitov S. and Serra M.C. Skeletons of nearly-critical branching processes. *Adv. Appl. Prob.* 47 (2015) 530-544
12. Sagitov S. Linear-fractional branching processes with countably many types. *Stoch. Proc. Appl.* 123 (2013) 2940-2956.
13. Dyakonova E., Vatutin V., and Sagitov S. Evolution of branching processes in a random environment. *Proceedings of the Steklov Institute of Mathematics* 282 (2013) 219-241.
14. Sagitov S. and Shaimerdenova A. Extinction times for a birth-death process with a weak competition. *Lithuanian Mathematical Journal* 53 (2013) 220-234.
15. Bartoszek K., Jones G., Oxelman B., and Sagitov S. Time to a single hybridization event in a group of species with unknown ancestral tree. *J. Theor. Biol.* 322 (2013) 1-6.
16. Jones G., Sagitov S. and Oxelman B. Statistical Inference of Allopolyploid Networks in the Presence of Incomplete Lineage Sorting. *Syst. Biol.* 62 (2013) 467-478.
17. Sagitov S. and Shaimerdenova A. Decomposition of supercritical linear-fractional branching processes. *Applied Mathematics* 4 (2013) 352-359.
18. Sagitov S., Mehlig B., Jagers P., and Vatutin V. Evolutionary branching in a stochastic population model with discrete mutational steps. *Popul. Theor. Biol.* 83 (2013) 192-199.
19. Vatutin V., Dyakonova E., Jagers P. and Sagitov S. Decomposable branching processes in a Markovian environment. Special issue (eds C.J. Mode, R. Durrett, P. Olofsson, F. Klebaner). *International Journal of Stochastic Analysis* 2012 (2012) 1-24.
20. Sagitov S. and Bartoszek K. Interspecies correlation for neutrally evolving traits. *J. Theor. Biol.* 309 (2012) 11-19
21. Schaper E., Eriksson A., Rafajlovic M, Sagitov S., and Mehlig B. Linkage disequilibrium under recurrent bottlenecks. *Genetics* 190 (2012) 217-229.
22. Klebaner F., Sagitov S., Vatutin V., Haccou P., Jagers P. Stochasticity in the adaptive dynamics of evolution: the bare bones. *J. Biol. Dynamics* 5 (2011) 147-162.
23. Eriksson A., Mehlig B., Rafajlovic M, and Sagitov S. The total branch length of sample genealogies in populations of variable size. *Genetics* 186 (2010) 601-611.

24. Jagers P. and Sagitov S. Limit theorems for branching processes. In: Encyclopedia of Operations Research and Management Science, Wiley 2010.
25. Sagitov S., Jagers P. and Vatutin V. Coalescent approximation for structured populations in a stationary random environment. *Theor. Popul. Biol.* 78 (2010) 192-199.
26. Sagitov S. and Serra M.C. Multitype Bienayme-Galton-Watson processes escaping extinction. *Adv. Appl. Prob.* 41 (2009) 225-246.
27. Särkkä A. and Sagitov S. Live case studies in a new course on Statistical Consulting. Preprint (2008)
28. Jagers P. and Sagitov S. General branching processes in discrete time as random trees. *Bernoulli* 14 (2008) 949-962
29. Lagerås A. and Sagitov S. Reduced branching processes with very heavy tails. *J. Appl. Prob.* 45 (2008), 190-200
30. Eriksson A., Fernström P., Mehlig B. and Sagitov S. An accurate model for genetic hitchhiking, *Genetics* 178 (2008) 439-451.
31. Klebaner F., Rösler U. and Sagitov S. Transformations of Galton-Watson processes and linear fractional reproduction. *Adv. Appl. Prob.* 39 (2007), 1036-1053.
32. Jagers P. and Klebaner F. and Sagitov S. Markovian Paths to Extinction. *Adv. Appl. Prob.* 39 (2007) 569-587.
33. Jagers P. and Klebaner F. and Sagitov S. On the Path to Extinction. *PNAS* 104 (2007), 6107-6111.
34. Sagitov S. and Jagers P. The coalescent effective size of age-structured populations. *Ann. Appl. Probab.* 15 (2005) 1778-1797 .
35. Jagers P. and Sagitov S. Coalescent processes: reversed branching. In *Branching processes: Variation, growth, extinction*, by Haccou P., Jagers P. and Vatutin V., Cambridge U. Press (2004)
36. Jagers P. and Sagitov S. Convergence to the coalescent in populations of substantially varying size. *J. Appl. Prob.* 41 (2004) 368-378.
37. Sagitov S. Convergence to the coalescent with simultaneous multiple mergers. *J. Appl. Prob.* 40 (2003) 839-854
38. Möhle M. and Sagitov S. Coalescent patterns in exchangeable diploid population models. *J. Math. Biol.* 47 (2003) 337-352.
39. Sagitov S. Coexistence of two polygynous mating strategies. Chalmers University of Technology, Math. Dept., Preprint no. 95 (2002)
40. Klebaner F. and Sagitov S. The age of a Galton-Watson population with geometric offspring distribution. *J. Appl. Prob.* 39 (2002) 1-13.
41. Möhle M. and Sagitov S. A classification of coalescent processes for haploid exchangeable population models. *Ann. Prob.* 29 (2001) 1547-1562.
42. Jagers P. and Sagitov S. The growth of general population-size-dependent branching processes year by year. *J. Appl. Prob.* 37 (2000) 1-14
43. Sagitov S. The general coalescent with asynchronous mergers of ancestral lines. *J. Appl. Prob.* 36 (1999) 1116-1125.
44. Möhle M. and Sagitov S. A classification of ancestral limit processes arising in haploid population genetics models. *Berichte zur Stochastik und verwandten Gebieten*, Johannes Gutenberg-Universität Mainz, Preprint (1998)
45. Sagitov S. Linear growth in the multitype Galton-Watson process with density-dependent reproduction. Chalmers University of Technology, Math. Dept., Preprint no. 30 (1998) 1-24.
46. Kaj I. and Sagitov S. Limit processes for age-dependent branching particle systems. *J. Theor. Prob.* 11 (1998) 225-257.
47. Kaj I. and Sagitov S. Superprocess approximation for a spatially homogeneous branching walk. *Electron. Comm. Probab.* (1997) 59-70.
48. Sagitov S. Limit skeleton for critical Crump-Mode-Jagers branching processes. *Classical and modern branching processes* (Minneapolis, MN, 1994), 295-303, IMA Vol. Math. Appl., 84, Springer, New York, 1997.
49. Sagitov S. Introduction to financial mathematics. (In Russian) Preprint of the Institute of Theoretical and Applied Mathematics, National Academy of Sciences of Kazakhstan, Almaty (1996) 1-52.
50. Sagitov S. On a non-regular branching process. *Theory Probab. Appl.* 40 (1995) 575-577.
51. Sagitov S. A key limit theorem for critical branching processes. *Stochastic Process. Appl.* 56 (1995) 87-100.
52. Sagitov S. Three limit theorems for reduced critical branching processes. *Russian Math. Surveys*, 50 (1995) 1025-1043.
53. Sagitov S. On the renewal theory in triangle array. Uppsala University, Math. Dept., Preprint no. 15 (1994) 1-7.
54. Sagitov S. Measure-branching renewal processes. *Stochastic Process. Appl.* 52 (1994) 293-307.
55. Sagitov S. General branching processes: convergence to Jirina processes. *J. Math. Sci.* 69 (1994) 1199-1206
56. Sagitov S. A general critical branching process with regularly varying survival probability. Chalmers University of Technology, Math. Dept., Preprint no. 17 (1993) 1-15.
57. Sagitov S. Convergence of critical chi-counted branching processes to a continuous-state branching process. Chalmers University of Technology, Math. Dept., Preprint no. 39 (1992) 1-34.

58. Sagitov S.M. A Bellman-Harris branching process that starts with a large number of particles. *Soviet Math. Dokl.* 42 (1991) 372-375.
59. Vatutin, V.A. and Sagitov S.M. A critical branching process: the remote past given a favorable present. *Theory Probab. Appl* (1991) 86-98.
60. Sagitov S.M. A multidimensional critical branching process generated by a large number of particles of a single type. *Theory Probab. Appl.* 35 (1990) 118-130.
61. Sagitov S.M. Limit behavior of reduced critical branching processes. *Soviet Math. Dokl.* 38 (1989) 488-491.
62. Vatutin, V.A. and Sagitov S.M. A decomposable critical Bellman-Harris branching process with two types of particles. II. *Theory Probab. Appl.* 34 (1989) 216-227.
63. Vatutin, V.A. and Sagitov S.M. A decomposable critical Bellman-Harris branching process with two types of particles. I. *Theory Probab. Appl.* 33 (1988) 460-472.
64. Vatutin, V.A. and Sagitov S.M. Critical decomposable Bellman-Harris processes with two types of particles, which are "far from" Markov processes. *Math. Notes* 43(1988) 157-161.
65. Sagitov S.M. Multidimensional limit theorems for a branching process with one type of particles. *Math. Notes* 42 (1987) 597-602.
66. Sagitov S. Total progeny of a critical branching process. *Proceedings of the 1st World congress of the Bernoulli society, Vol. 2, VNU Sci. Press, Utrecht* (1987) 713-715.
67. Vatutin V.A. and Sagitov S.M. A decomposable critical branching process with two types of particles. (Russian) *Probabilistic problems of discrete mathematics. Trudy Mat. Inst. Steklov.* 177 (1986) 3-20.
68. Vatutin V.A. and Sagitov S.M. A decomposable critical Bellman-Harris branching process with two types of particles. (Russian) *Dokl. Akad. Nauk SSSR* 291(1986) 1040-1043.
69. Sagitov S.M. Limit behavior of general branching processes. *Math. Notes* 39 (1986) 80-86.
70. Sagitov S.M. Reduced critical Bellman-Harris branching process with several types of particles. *Theory Probab. Appl.* 30 (1986) 783-796.
71. Sagitov S.M. Limit theorems for critical branching processes. (Russian) Ph. D. thesis manuscript, Moscow, Steklov Math. Institute (1983) 1-96.
72. Sagitov S.M. A limit theorem for a critical branching process of general type. *Math. Notes* 34 (1983) 713-717.
73. Sagitov S.M. Limit theorems for multidimensional critical branching processes with immigration. (Russian) *Dokl. Akad. Nauk SSSR* 271(1983) 1066-1069.
74. Sagitov S.M. Critical branching processes with several types of particles and with immigration. *Theory Probab. Appl.* 27 (1983) 369-374.
75. Sagitov S.M. Common ancestors in critical Bellman-Harris branching processes with several types of particles. (Russian) *Izv. Akad. Nauk Kazakh. SSR Ser. Fiz.-Mat.* (1982) 66-69.
76. Sagitov S.M. Zero-hitting probability for a critical branching process with immigration. (Russian) *Izv. Akad. Nauk Kazakh. SSR Ser. Fiz.-Mat.* (1982) 63-65.

Supervision of postdocs and students

Postdocs

- Maria Conceicao Serra (6 months during 2009-2010)
- Andreas Lagerås (2007-2008)

PhD students

- Coadvisor for Sebastian Jobjörnsson, PhD student at Chalmers, Optimal designs of clinical trials, 2017-2108
- Examiner for Henrik Imberg, PhD student at Chalmers, starting from 2016
- Coadvisor for Carmen Minuesa Abril, PhD student at Extremadura University 2015-2016
- Main adviser for Alexey Lindo, PhD student at Chalmers, Some computational aspects of Markov processes. Defended PhD thesis in 2016
- Main adviser for Krzysztof Bartoszek, PhD student at University of Gothenburg. Stochastic models in phylogenetic comparative methods. Defended PhD thesis in 2013
- Main adviser for Altynay Shaimerdenova, PhD student at Al-Farabi University, Almaty Kazakhstan, Exact asymptotics and explicit formulae for some special branching processes. Defended PhD thesis in 2013

- Main adviser for Maria Conceicao Serra, PhD student at Chalmers, Branching processes escaping extinction. Defended PhD thesis in 2007
- Coadviser for Ali Falahati, PhD student at Chalmers, Two-Sex Branching Populations. Defended PhD thesis in 1999
- During 1987-1991 I had three PhD students, unfortunately, none of them have finished their PhD theses because of the economic crisis in the academic system in Kazakhstan connected to the collapse of the Soviet Union:
 - Coadviser for Altai Almukambetov, Local limit theorems for critical branching processes with immigration, PhD student at Steklov institute of mathematics, Russia
 - Main adviser for Erahmet Zhumaev, Near critical age-dependent Branching Processes, PhD student at Institute of mathematics, Kazakhstan
 - Main adviser for Galim Sadibekov, Reduced two-type decomposable Branching Processes, PhD student at Institute of mathematics, Kazakhstan

Master degree students

- Master degree thesis (examiner). Amiel Pouzat (2019) Static Analysis of Drools
- Master degree thesis (GU examiner). Anna Samuelsson (2018) Financial factor models
- Master degree thesis (main adviser) Jonas Jagers (2017) Galton-Watson processes with rank dependence
- Guest student Thibaut France (March-July 2016) Pure death processes coming down from infinity
- Master degree thesis (examiner). Gustav Alfelt (2013) Exploring a proxy to the CDS-Bond basis.
- Master degree thesis (coadviser). Exchange student Stefano Belloni (spring 2011) Spatially Structured Populations.
- Master degree thesis (examiner) for Zheng Cui (2009) Nemertea group and the DNA barcoding theory.
- Visiting student (mentor) for Alexis Huet (summer 2008) On xlogx condition for supercritical branching processes.
- Adviser and examiner for Emilio Bergroth (2007) A Critical Branching Process Model for Biodiversity
- Examiner for Shruti Rastogi (2005) Evolution in Model Proteins
- Adviser for Liu Xiamo (2005) Selective sweep patterns of genetic variation
- Coadviser for Tang Jing (2004) Beta coalescent
- Adviser and examiner for Cindy Liu (2003) Age-structured coalescent
- Examiner for Niklas Norén (2002) A Monte Carlo method for Bayesian dependency derivation
- Coadviser and examiner for Henrik Nilsson (2001) A primer to the Phylogeny of the Hyphoderna Setigerum Complex
- Advisor for Erahmet Zhumaev (1988) Multi-type Branching Processes

Bachelor degree students

- Bachelor degree project (adviser). Lina Hammargren, Carl Larsson, William Nilsén, Milton Bark (2019) Varför är så många publicerade forskningsresultat falska?
- Bachelor degree project (adviser). Vilhelm Agdur and Daniel McKelvey (2018) Iterated random functions.
- Bachelor degree project (adviser). Marcus Axelsson, Helena Jakobsson Larsson, Christian Söyland, Mattias Walla. (2013) Stokastisk modellering av artrikedomen i livets träd.

- Examiner for Freyr Hermannsson (2005) On the construction of standard and super Brownian Motion
- Coadviser and examiner for Erik Hjalmarsson (1999) Nord Pool: a Power Market without Market Power
- Advisor for Erahmet Zhumaev (1986) Markov chains

Teaching graduate courses

2019 Mathematical consulting

2013, 2014, 2016, 2018 Stochastic Processes (for Master and PhD students). I have written a compendium for this course (downloadable from the course page).

2013, 2015, 2017 Weak Convergence. I have written a detailed compendium for this course (downloadable from the course page).

2014 4-hours minicourse "Multispecies coalescent model". A contribution to a course on phylogenetics (main organizer Bengt Oxelman).

2011 An intensive PhD course "Stochastic processes" is given at the Al-Farabi Kazakh state university, Almaty, Kazakhstan.

2010 A contribution to a course on phylogenetics (December 10-15, main organizer Bengt Oxelman).

2009 An intensive PhD course on Linear-fractional Branching processes is given at the Ufa State Aviation University in Ufa, Russia.

2008 A PhD course on Linear-fractional Branching processes at the home department of Mathematical Sciences. In a more intensive format this course was also given at the Gumilev University in Astana, Kazakhstan.

2008 Two PhD courses on statistical methods in phylogenetics. One as a study circle on the recent book Computational Molecular Evolution by Ziheng Yang.

The other is an intensive PhD course "From gene trees to a species tree" (main organizer Bengt Oxelman, 20 participants, June 9-13). It was devoted to new developments on phylogenetical tree building. My part was to present to PhD students with biological background the stochastic models and statistical issues behind Bayesian inference in phylogenetical systematics.

2005 An intensive summer course "Age-dependent Critical Branching Processes" for PhD and advanced Master students at the Beijing Normal University (host Zhenghu Li). The number of participants was around 30.

2004 A PhD course at Zoology Department, GU "Population phylogeny and coalescent methods" (main organizer Per Sundberg). The course was on modern computer intensive methods of phylogenetical tree building. My part was to present to PhD students as well senior researchers with various background (zoology, botany, computer science) the stochastic models and statistical issues behind the Bayesian inference in phylogenetical systematics. Around 15 participants.

1992 A study circle on the textbook "Probability with Martingales" by D. Williams at the Chalmers University of Technology. During two months time I met weekly with two PhD students from the Division of Mathematical Statistics and explained difficult parts of the book.

Teaching undergraduate courses

Since 1997 I gave lectures for various statistical courses at Chalmers and University of Gothenburg (GU). At the moment, I am responsible for the following undergraduate courses:

MVB200: Statistical thinking (lectures and exercises). An evening course in mathematical statistics for general public (in Swedish)

L9MA30/LGMA30: Statistics for teachers (lectures). A course in mathematical statistics for future high school and gymnasium teachers (in Swedish)

MVE155: Statistical Inference (lectures and exercises). A second course in mathematical statistics attracting (around 80 in 2018) students from different Master programs at Chalmers and GU

MVE251: Probability and Stochastic Processes (lectures and exercises).

MVE330: Stochastic Processes (lectures and exercises).

LMA136: Industrial Mathematics and Statistics (examiner).

Here is a list of the courses given by me in the past (some of them several times):

- Time series and forecasting (15 students, teaching language English),
- Nonparametric statistical inference (15 students, teaching language English),
- Mathematical statistics for Bioengineers (60 students, teaching language Swedish),
- Basics of mathematical statistics for Bioinformaticians (10-15 students, teaching language English),
- Mathematical statistics for Technical Physicists and Chemistry Physicists (100 students, teaching language Swedish),
- Basic statistics for genomic science (30 students, teaching language English),
- Population genetics (20-25 students, teaching language English),
- Probability Theory 1 (20 students, teaching language Swedish).

1995 - 1997

As a part-time lecturer at KIMEP (Kazakhstan) I taught an undergraduate course in Applied Statistics, and repeatedly a Project Appraisal course using the case-study approach. Both courses were part of the program "Master of Public Administration" (director Anu Bose). A typical group size was 30 students.

1985 - 1986, 1988

During those three years I was a part-time lecturer at the Department of Mathematics of the Kazakh State University (Kazakhstan). I taught several undergraduate courses in Probability, Mathematical Statistics and Stochastic Processes for students from different programs: mathematics, physics, mechanics, and chemistry. I had both lectures and exercise classes. The group sizes ranged from 30 to 60, the teaching language was Russian.

Pedagogical studies and development projects

2019 Mentor to Researcher. Utilization program at Chalmers

2017 Chalmers program: Jag som (hand-) ledare

2016 Chalmers ledarskapsprogram

2015 Leadership courses

- Konfliktantering (GU)
- Ekonomispel (GU)
- Förändringsledning (Chalmers)
- Lönesättande samtal (Chalmers)

2014 Leadership courses:

- Workshop on recruitment (Chalmers 1/2 day)
- Grundläggande chefsutbildning (Chalmers 3 days)
- Coaching (Chalmers 4 days)
- Introduktionsutbildning för nyanställda (GU 1 day)

2012 Handledareforum, Chalmers

2007-2008 Completed the pedagogical program Diploma of Higher Education at Chalmers.

2007 Participated in a one-day course for PhD advisers at Chalmers (instructor Frida Lisak).

2000 Participated in a two-day GU course for PhD advisers.

1996 Participated in a week long Symposium for Entrepreneurship Educators organized by Babson College (MA, USA). The participants of the Symposium were introduced to the concepts of entrepreneurship and how they are taught with special emphasis on the case-study approach.

Teaching activity outside the university

2007, 2014 and 2015

Public lectures at the Vetenskapsfestivalen (in Swedish) devoted to my research connected to population genetics, comparative phylogenetics, and stochastic demographics.

2013 spring

I gave a lecture "Modeling random trees of life" for school children from different European countries participating in the [European Student Conference in Mathematics, EUROMATH-2013](#), Gothenburg.

2011 and 2012

Summer Camps organized by GU at Tjärnö Marinstation. I gave lectures "Why statistics?" and advised small research projects performed by gymnasium students.

1995-1997

I was involved in a series of Training programs organized by the Economic Development Institute of the World Bank: first as a participant, then as an interpreter, and finally as an instructor. The courses I

taught were Real Estate Valuation, Principles of Business Valuation, Machinery and Equipment Appraisal.

These were intensive courses, usually one week, 8 hours a day. The courses took place at different regions in Kazakhstan (Almaty, Pavlodar, Semipalatinsk). They were aimed at people working at different public and private companies and practicing various kinds of valuation (mainly real estate valuation agencies). A typical group size was 20 participants.

1984 autumn

A study circle at a secondary school with special emphasis on Mathematics and Physics (Almaty, Kazakhstan). The subject of the study circle was Discrete Probability.

1978 - Present

Starting from the presentation of my Master degree thesis I have given a great number of lectures on my research at numerous seminars, conferences, and workshops in Russia, Kazakhstan, Uzbekistan, Ukraine, Lithuania, Bulgaria, Poland, Sweden, Denmark, France, Germany, Italy, Holland, China, Australia, USA, Spain, Portugal.

Administration and leadership of curriculum planning

2013 Director of Graduate Studies in Mathematical Statistics at the Department of Mathematics.

2007-2014 Member of the steering committee for the Division of Mathematical Statistics at the Department of Mathematics.

2007-2012 Director of Undergraduate Studies in Mathematical Statistics at the Department of Mathematics. Member of the steering committee for the Master program "Matematiska vetenskaper" at the University of Gothenburg.

2003-2012 Contact person at the Division of Mathematical Statistics for the Master degree projects.

2001-2005 Member of the steering committee for the Master programs "Teknisk matematik" and "Engineering Mathematics" at Chalmers University of Technology.

Editorial and other work

Journal editor

- Eurasian Journal of Mathematics

PhD committees

- 2015 May. A member of the PhD defense committee for Fredrik Olsson "Inbreeding, Effective Population Sizes and Genetic Differentiation - a Mathematical Analysis of Structured Populations" at the Department of Mathematics, the Stockholm University.
- 2013 November. A member of the PhD defense committee for Sebastian Höhna "Bayesian inference in phylogenetics" at the Department of Mathematics, the Stockholm University.
- 2012 September. A member of the PhD defense committee for Augusto Hernandez-Solis "Uncertainty and sensitivity analysis applied to LWR neutronic and thermal-hydraulic calculations" at the Department of Chemical and Biological Engineering, Chalmers.

- 2011. A member of the PhD defense committee for Sofia Tapani "Stochastic modelling and analysis of early mouse development" at the Department of Mathematical Sciences, Chalmers and GU.
- 2010. A member of the PhD defense committee for Emma Thuroczy Vodoti "Biodiversity and genetic patterns in marine invertebrates" at the Department of Zoology, GU.
- 2007 June. A member of the PhD defense committee for Louise Holm "A non-stationary perspective on the European and Swedish business cycle" at the Handels Högskola, GU.
- 2004 February. A member of the PhD defense committee for Raimundas Gaigalas "A non-Gaussian limit process with long-range dependence" at the Uppsala University.
- 2007 January. A member of the PhD defense committee for Magnus Karlsson "Load modeling for fatigue assessment of vehicles – a statistical approach" at Mathematical Sciences, Chalmers and GU.
- 2002 February. Opponent to the licenciate degree defense by Raimundas Gaigalas at the Uppsala University.

Referee duties

- I have reviewed papers for the following journals: Journal of Applied probability, Advances in Applied probability, Annals of Probability, Annals of Applied Probability, Stochastic Processes and their Applications, Journal of Mathematical Biology, Journal of Theoretical Biology, Bernoulli, Electronic Journal of Probability, International Journal of Stochastic Analysis.
- I also reviewed some book projects, in particular for Springer.

Conference organization

- SPA conference, Gothenburg, June 2018
- 9th European conference on mathematical and theoretical biology, Gothenburg, June 15-19, 2014
- IMS-2010 conference in Gothenburg, August 9-13 2010
- 10th Vilnius conference, Vilnius, June 28 - July 2, 2010
- Symposium "In Honour of Peter Jagers", Gothenburg, March 27-28 2008 (main organizer)
- Stochastic Approaches to Evolution, Gothenburg, May 26-30, 2007

Family

Married to Nelli Sagitov, legitimerad apotekare, Apoteket AB.

Father to five children:

1. Astan Sagitov, 39 years old, Director of the risk department at ForteBank, Kazakhstan
2. Rauan Sagit, 34 years old, PhD in Bioinformatics, Systemutvecklare, Atlas Antibodies AB, Stockholm
3. Elin Sagitov, 10 years old, Victoriaskolan, Göteborg
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