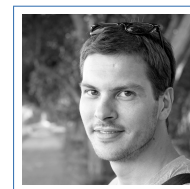


Okke Schrijvers

Curriculum Vitae

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🌐 www.okke.info



Personal Information

Date of Birth September 27, 1986 in Amsterdam, The Netherlands
US Visa F1 (1 year of OPT left, eligible for OPT STEM extension)
Nationality Dutch

Education

- 2012-Present **Ph.D. Computer Science**,
Stanford University, Stanford, United States of America.
◦ Advisor: Tim Roughgarden
◦ Field: Algorithmic Game Theory
◦ Expected graduation date: June 18, 2017
- 2010-2012 **M.Sc. in Computer Science and Engineering**,
Eindhoven University of Technology, Eindhoven, The Netherlands.
◦ Graduated Cum Laude, GPA: 9.5/10
◦ Thesis: "Insertions and Deletions in Delaunay Triangulations using Guided Point Location"
- 2008-2009 **Professional Education Mathematics Courses**,
Open University UK, United Kingdom.
◦ Studied part-time, alongside fulltime job at Playlogic Game Factory
◦ Two modules, 30 ECTS, GPA: 8.8/10
- 2004-2008 **Bachelor of ICT**,
Hanze University of Applied Sciences, Groningen, The Netherlands.
◦ Graduated Cum Laude, GPA: 8.9/10
◦ Thesis: "Soft Body Simulation"

Honors and Awards

- 2014-2016 **CS Department Outstanding Service Award**,
Stanford University, Stanford, USA.
Awarded annually to one or several students for service to the Stanford CS department. Received three times. In 2014 I was admit weekend student co-chair, admission committee student member, and TGIF committee member. In 2015 I was admit weekend student chair and admission committee student member. In 2014 I was admit weekend student co-chair.
- 2012 **"M&I/Partners Informatie" Best Thesis Award**,
Royal Dutch Society for Sciences, Haarlem, The Netherlands.
Received for Master's thesis "Insertions and Deletions in Delaunay Triangulations using Guided Point Location". Awarded annually by the Royal Dutch Society for Sciences (Koninklijke Hollandse Maatschappij der Wetenschappen) to the best Computer Science thesis in the Netherlands and Belgium; award includes a total cash reward of €6,250.
- 2011-2012 **Computer Science and Engineering Honors Program**,
Eindhoven University of Technology, Eindhoven, The Netherlands.
Research program aimed at excellent students that accounts for 12 extra-curricular ECTS. In my year, only 4 out of approximately 100 students were accepted into the program.

- 2008 **“CU Award” for Best Technical Thesis**,
Hanze University of Applied Sciences, Groningen, The Netherlands.
Received for Bachelor Thesis “Soft Body Simulation”. Awarded annually by the Hanze university for the best technical undergraduate Computer Science thesis; award includes a cash reward of €1,000.

Publications

- Tim Roughgarden and Okke Schrijvers. Online prediction with selfish experts. Working Paper.
- Tim Roughgarden and Okke Schrijvers. Ironing in the dark. In *Proceedings of the 2016 ACM Conference on Economics and Computation*, pages 1–18. ACM, 2016.
- Sudipto Guha, Nina Mishra, Roy Gourav, and Okke Schrijvers. Robust random cut forest based anomaly detection on streams. In *Proceedings of The 33rd International Conference on Machine Learning*, pages 2712–2721. ACM, 2016.
- Okke Schrijvers, Joseph Bonneau, Dan Boneh, and Tim Roughgarden. Incentive compatibility of bitcoin mining pool reward functions. *Financial Crypto 2016*.
- Volodymyr Kuleshov and Okke Schrijvers. Inverse game theory: Learning utilities in succinct games. In *Web and Internet Economics, WINE 2015*, pages 1–15, 2015.
- Mohammad Mahdian, Okke Schrijvers, and Sergei Vassilvitskii. Algorithmic cartography: Placing points of interest and ads on maps. In *Proceedings of the 21th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, pages 755–764. ACM, 2015.
- Tim Roughgarden and Okke Schrijvers. Network cost-sharing without anonymity. *ACM Transactions on Economics and Computation*, 4(2):8, 2016.
- Kevin Buchin, Olivier Devillers, Wolfgang Mulzer, Okke Schrijvers, and Jonathan Shewchuk. Vertex deletion for 3D Delaunay triangulations. In *ESA 2013*, volume 8125 of *Lecture Notes in Computer Science*, pages 253–264. Springer Berlin Heidelberg, 2013.
- Okke Schrijvers and Jarke J. van Wijk. Visual explanation of the complexity in Julia sets. *Computer Graphics Forum*, 32(3pt4):431–440, 2013.
- Okke Schrijvers, Frits van Bommel, and Kevin Buchin. Delaunay triangulations on the word RAM: Towards a practical worst-case optimal algorithm. In *Voronoi Diagrams in Science and Engineering (ISVD), 2013 10th International Symposium on*, pages 7–15, 2013.
- Okke Schrijvers. Deleting points in Delaunay triangulations (dutch: Verwijderen van punten in Delaunay-triangulaties). In *Informatie magazine of Jan/Feb 2013*, pages 44–51. Sdu uitgevers, 2013. Invited Publication.
- Okke Schrijvers. Insertions and deletions in Delaunay triangulations using guided point location. Master’s thesis, TU Eindhoven, August 2012. <http://alexandria.tue.nl/extra1/afstvers1/wsk-i/schrijvers2012.pdf>.
- Tal Milea, Okke Schrijvers, Kevin Buchin, and Herman Haverkort. Shortest-paths preserving metro maps. In *Graph Drawing*, volume 7034 of *Lecture Notes in Computer Science*, pages 445–446. Springer, 2012.

Academic Positions

- January 2016 - **Co-Editor in Chief XRDS, ACM**.
Present XRDS is the quarterly student publication of the ACM. As co-Editor in Chief it is my responsibility to have a high-quality publication every three months and maintain a good relation with the editors, guest editors and advisory board.
- September - **“Internet Economics & Online Markets” PC Member, WWW 2017**.
November '16 Member of the program committee for the track “Internet Economics & Online Markets” at WWW 2017.
- May - August **Sponsorship Chair, ACM OpenSym 2016 Conference**.
2016 In charge of raising \$15,000 for the ACM OpenSym 2016 conference in Germany.

Employment

- June 2016 **Summer Intern**, *Facebook*, Menlo Park, CA, United States.
- September 2016 I worked in the Ads Engineering team on prediction for fixed price contracts and with the Core Data Science team on econometrics for games.
- June 2015 **Summer Intern**, *Amazon*, Palo Alto, CA, United States.
- September 2015 I worked in the core Machine Learning group on outlier detection methods in an unsupervised setting. The work was published at ICML 2016.
- June 2014 **Summer Intern**, *Google Inc.*, Mountain View, CA, United States.
- September 2014 I formulated the problem of deciding which points of interest and ads to place on a map mathematically and gave algorithms to solve this problem. The work was published at KDD 2015.
- February 2010 **Programmer**, *Grendel Games*, Leeuwarden, The Netherlands, 0.4 FTE.
- March 2011 Worked part-time on several projects including games, augmented reality tours and graph drawing. Worked in C++, OpenGL.
- June 2008 - **Programmer**, *Playlogic Game Factory*, Breda, The Netherlands, Fulltime.
- January 2010 Started up a tech group responsible for prototyping and implementing new technologies in the existing frameworks. Created prototypes for alternative lighting, shallow water simulation and watercolor painting. Worked on EyePet for the Playstation 3 in collaboration with Sony London Studios, which sold over 1 million copies. Implemented two of the game's activities.

Published Video Games

- 2009 **EyePet**, *PlayStation 3*, Sony Computer Entertainment.
Responsible for the two mini-games "Feeding" and "Treadmill". Developed by Sony London Studios and Playlogic Game Factory. Sold over 1 million copies worldwide.
- 2011 **Diamond Dan**, *PC*, Grendel Games.
Worked on the User Interface of Diamond Dan. Developed and released by the independent game developer Grendel Games through Steam.

Teaching

- Fall 2016 **Teaching Assistant**, *CS 269I: Incentives in Computer Science*, Stanford University, United States.
New course by Tim Roughgarden on various intersection points between computer science and game theory, such as matching markets, prediction markets, incentives in Bitcoin and Bittorrent, sponsored search auctions and more. Responsible for office hours, grading and proofreading lecture notes.
- Fall 2016 **Teaching Assistant**, *CS 261: A Second Course in Algorithms*, Stanford University, United States.
An advanced course in algorithms focusing on flow problems, linear programming and duality, and other advanced topics. Responsible for office hours and grading.
- Spring 2015 **Teaching Assistant**, *CS 168: Modern Algorithmic Toolbox*, Stanford University, United States.
New course by Tim Roughgarden and Greg Valiant about the algorithmic and theory that are most useful in practice today. Since it is a new course, I have had to design multiple homeworks, proofread lecture notes and hold office hours.
- Winter 2014 **Teaching Assistant**, *CS 364B: Frontiers in Mechanism Design*, Stanford University, United States.
Course by Tim Roughgarden. Sole TA. Responsible for office hours, grading, videotaping lectures, proofreading lecture notes.
- Fall 2013 **Teaching Assistant**, *CS 364A: Algorithmic Game Theory*, Stanford University, United States.
Course by Tim Roughgarden. TA with Kostas Kollias. Responsible for office hours, grading, videotaping lectures, proofreading lecture notes.
- Fall 2011 **Student Assistant**, *Introduction to Programming*, Eindhoven University of Technology, The Netherlands.
Helped students understand the course material. Graded students' exercises.

Outreach, Service, and Extracurricular Activities

- November 2013 - Present **Founding Partner of UCAN initiative (University Connection America-the Netherlands).**
I founded an initiative to raise awareness and provide information about graduate school in the US, for Dutch students. Under this initiative I wrote a document for potential PhD students about the application process, and I went to the Netherlands in December '13 to give talks at 4 different Dutch universities. One of the mentees of UCAN started their PhD at Duke this year and another started their undergraduate degree at Stanford.
- December 2013 - Present **Rotarian, Palo Alto University Rotary Club.**
I am a member of the Palo Alto University Rotary Club in Palo Alto. The organization focuses on different avenues of service such as community, international, and vocational service.
- February 2015 - June 2015 **Reading Tutor, Reading Partners, Menlo Park.**
As a reading tutor, I spend an hour per week with a third-grader to help him catch up to grade-level reading. The school is in one of the (too many) underprivileged parts of Silicon Valley.
- June 2014 - June 2015 **Vice-president Dutch@Stanford, Stanford.**
As Vice-president of Dutch@Stanford I use my prior experience as President of the organization to run the organization and plan events. After June 2015 I have been active as a board member only.
- October 2012 - June 2014 **President Dutch@Stanford, Stanford.**
The Dutch@Stanford study association looks after the interests of Dutch people at Stanford and aims to share the Dutch culture with others. As president, I hosted the Dutch consul at Stanford, organize meetings for Dutch people to socialize, and events for the general public to get in contact with Dutch culture.
- Jan-Mar 2014, Jan-Mar 2015, Jan-Mar 2016 **CS PhD Admit Weekend Student (Co-)Chair, Stanford.**
After students have been admitted to Stanford's CS PhD program, they are invited to visit the university during Admit Weekend. As a student (co-)chair I was responsible for planning activities making sure the weekend runs smoothly. I was student chair on 2015, and student co-chair in 2014 and 2016.
- December '13, Dec'14-Jan'15 **CS PhD Admissions Committee Student Member, Stanford.**
As a student member of the admissions committee, you help decide which students will be admitted to Stanford's CS PhD program. In 2013 I was involved with the first round only, which includes all applicants. In 2014-2015 I have been involved with the entire selection procedure.
- January 2013 - January 2015 **TGIF Committee Member, Stanford.**
Stanford CS TGIF is a cherished tradition where the grad students in the CS department get to relax and enjoy free drinks and snacks on the Friday afternoon. As committee member, I am responsible for getting the food and drinks, and inviting the students.
- October 2012 - September 2014 **Stanford Debate Society Travel Member, Stanford.**
The Stanford Debate Society Travel competes in the American Parliamentary Debate Association (APDA) competition that consists of mostly east coast schools. As part of the travel team, members fly to the east coast a number of times per year to compete in tournaments. Won the 3rd Novice Team award at the MIT tournament 2013.
- October 2011 - April 2012 **Student association – President “Batavieren” Committee, TU Eindhoven.**
President of the committee that arranged the participation of the computer science study association “GEWIS” in the Batavieren Race, an annual 180-kilometer cross-country relay race that attracts approximately 8,000 students in 400 teams.

Languages

- Dutch Native
- English Fluent
- Spanish Reading Comprehension, Basic Speaking Ability