

# Jonathan Mills

## Curriculum Vitae

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*Applied mathematician, teacher and coach.*

### Experience

Nov 2023 – **Analyst**, CIVIL SERVICE COLLEGE, Singapore.

- Present
- Formulated and led implementation of a refreshed Learning Analytics Strategy
  - Conducted and presented the results of various analyses
  - Led the group-level Innovation Week working group

Working in the field of Learning Analytics, I was initially employed with the Learning Futures Group before corporate restructuring resulted in my transfer to the Data and AI Office.

May 2017 – **Senior Teacher / Reading Specialist**, I CAN READ, Singapore.

- Oct 2023
- Taught Pre-Primary and Primary English, with a focus on reading, writing, speaking and comprehension
  - Conducted diagnostic student assessments and advised parents on appropriate placement and progress
  - Supported teaching staff with guidance, onboarding, and scheduling in a Senior Teacher capacity
  - Co-operated with the curriculum team to refresh the Primary English programme
  - Reworked centre-wide communication with parents on student transition and promotion

Initially joining as a Reading Specialist, I advanced to a Senior Teacher role, gaining responsibility for centre-level support, pedagogical consistency, and internal communication.

Jan 2016 – **Head of Section**, DANISH MINISTRY OF TAXATION, Copenhagen, Denmark.

- Jun 2017
- Implemented a revised and expanded model for calculating car tax revenues
  - Drafted written answers from the minister in response to parliamentary questions
  - Assisted colleagues with producing and extracting relevant data sets
  - Performed revenue analysis for proposed legislation
  - Cooperated with external stakeholders to understand their requirements and wishes

Through my efforts as part of the team, my colleagues and I have been able to produce high-quality research and analysis at tight deadlines. Since Jan 2017, I worked part-time from Singapore, to make sure I could pass on my expertise and discoveries to colleagues.

Sep 2014 – **Teaching Assistant**, UNIVERSITY OF COPENHAGEN.

- Nov 2015
- Taught first, second and third year university students
  - Stepped in and took large classes to cover for lack of TAs in the Economics courses
  - Prepared lessons to strengthen students' knowledge of syllabus based on lecture materials
  - Graded assignments and assisted students in their revision

As a teaching assistant, I strengthened my own academical abilities, while gaining valuable hands-on experience in presenting and communication.

Sep 2008 – **Swimming Coach**, SVØMMEKLUBBEN TRITON, Ballerup, Denmark.

- Jul 2015
- Prepared lessons and taught competitive teenage swimmers three times a week
  - Coached swimmers at swimming meets, arranged training camps and handled communication with parents
  - Previously also taught swimmers aged 5-7

Coaching swimming part-time has allowed me to work in a hands-on environment with teaching complicated techniques and concepts in a motivating, understandable and inspiring manner.

### Education

Sep 2013 – **M.Sc., Mathematics-Economics**, University of Copenhagen, My M.Sc. degree represents the

- Oct 2015 pursuit of a seven-year academical interest in economics and mathematics. During my two-year masters programme, I focused on Economics, but also took courses in Finance and Econometrics.  
GPA: 7.8 out of 12 (Danish scale, weighted by ECTS points)

- Aug 2012 – **On exchange**, *National University of Singapore*, To further my interest in Economics and Finance  
 May 2013 and expand my academic and cultural understanding, I studied at NUS on an exchange programme.  
 CAP: 3.75 out of 5.00 (calculated)
- Sep 2010 – **B.Sc., Mathematics-Economics**, *University of Copenhagen*, During my bachelors, I gained a  
 Jun 2013 strong foundation in the mathematical areas of Measure Theory, Probability Theory and Analysis,  
 combined with a rigorous approach to Economics, Finance and Statistics.  
 GPA: 10.2 out of 12 (Danish scale, weighted by ECTS points)
- Aug 2008 – **International Baccalaureate**, *Nørre Gymnasium*, My international baccalaureate endowed me  
 Jun 2010 with broad skills in science and literary analysis. During my second year, I developed a greater  
 interest in mathematics and economics.  
 Points: 40 out of 45

## Skills

- General Data analysis, mathematical finance, economic analysis, statistics & teaching.  
 Programming Familiarity with C++, R, SAS and Excel.

## Masters Thesis

- Title *Costly access to credit markets in a DSGE model*  
 Supervisor Assistant professor Søren Hove Ravn  
 Grade 12 (Corresponding ECTS grade: A)  
 Description Within a DSGE model with involuntary unemployment, an additional effort choice is introduced  
 for agents to obtain credit access. The model is then used to examine questions relating to credit  
 availability, government policy and the business cycle.

## Bachelors Thesis

- Title *Privatization under a Stackelberg duopoly*  
 Supervisor Associate Professor Johan Lagerlöf  
 Grade 10 (Corresponding ECTS grade: B)  
 Description Three game theoretical models of privatization were developed, examining the effects of competition,  
 managerial incentive and subsidy schemes upon privatization tradeoffs.

## Selected Courses

- Masters Advanced Programming, International Economics, Public Finance, International Monetary Economics & Continuous time Finance.  
 Bachelor Measure Theory, Operations Research, Statistical Methods for Finance (NUS), Topics in Economics:  
 Understanding Government (NUS), Probability Theory and various Micro- and Macroeconomics.

## Other

- Languages Fluent: English & Danish. Intermediate: Finnish. Poor/learning: French & Mandarin.  
 Sports Training for up to 20 hours a week, won 40+ medals and placed top 10 nationally. Turned my  
 interest into a job by later working for seven years as a certified part-time swimming instructor.  
 University societies Contributed articles to; and past member of the editorial board of, Famøs, a student-run mathe-  
 matical magazine at the Mathematical department. Mentor and guide for prospective university  
 applicants. Past chairman of SoFaA, a student society organising company visits and social events.  
 Finally co-organiser of the annual Mathematics Gala (formal dinner and dance).  
 Practical Currently in possession of Singapore Permanent Residence. References, Diplomas and Transcripts  
 available on request.