

# Curriculum Vitae of Dagur Ásgeirsson



## Contact information

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## EDUCATION

*PhD*, Mathematics (ongoing)  
University of Copenhagen August 2024 (expected)

*Master of Science*, Mathematics  
Université de Paris August 2021  
Laureate of the Paris Graduate School of Mathematics scholarship for two years, awarded by the *Fondation Sciences Mathématiques de Paris*. Mention *très bien*.

*Bachelor of Science*, Mathematics  
University of Iceland, Reykjavik June 2019  
First class with distinction.

*Matriculation examination* (Icelandic: stúdentspróf)  
Reykjavik Junior College (Menntaskólinn í Reykjavík) May 2016  
First class with distinction.

## PROFESSIONAL EXPERIENCE

*University of Copenhagen* September 2021 – August 2024  
PhD candidate, mathematics.  
• Supervisor: Dustin Clausen. Topic: Condensed Mathematics.

### Teaching

- Autumn 2022: Teaching assistant (*Klasselærer*) in Introduction to the Mathematical Sciences (*Introduktion til de matematiske fag*). An introductory calculus course taught in Danish.
- Autumn 2022: Teaching assistant in Algebra 3 (Galois theory for first-year master's students).
- Autumn 2021: Teaching assistant in Algebra 3.

*Reykjavik Junior College (Menntaskólinn í Reykjavík)* August 2016 – May 2019  
Secondary school

Mathematics teacher

- Academic year of 2018-2019: Responsible for teaching mathematics to one class of second-year students in the physics line. Nine lessons per week.
- Academic year of 2017-2018: Responsible for teaching mathematics to one class of first-year students. Seven lessons per week.
- Academic year of 2016-2017: Taught extra lessons for first-year students two times per week.

*University of Iceland*

Teaching assistant, Algebra I

August – December 2018

- Taught three tutorial sessions per week in this introductory course on abstract algebra for mathematics students; graded homework assignments.

Teaching assistant, Linear Algebra

August – December 2017

- Taught two tutorial sessions per week; graded homework assignments and tests.

Research assistant

May – August 2017

- Was part of a team that developed the digital currency Smileycoin, a part of the bigger research project Education in a Suitcase supervised by Gunnar Stefánsson, professor of Statistics.
- Further information:
  - A [paper](#) published in 2017, detailing the project. I am mentioned in the Acknowledgement section.
  - Smileycoin project [homepage](#)
  - About the [supervisor](#) of the project, Professor Gunnar Stefánsson

*Genki Instruments*

Summer research intern

May – August 2018

- Worked on research concerning quaternionic orientation algorithms using magnetic, angular rate and gravity sensors for use in [Wave](#), the product of Genki Instruments.

## PUBLICATIONS

- *Palindromes in finite groups and the Explorer-Director game*, with Pat Devlin. Internat. J. Algebra Comput. 31 (2021), no. 3, 491-499. doi:[10.1142/S0218196721500235](https://doi.org/10.1142/S0218196721500235). Note: this work was part of my bachelor's thesis at the University of Iceland (preprint: [arXiv:1904.00467](https://arxiv.org/abs/1904.00467)).

## TALKS

- Topics in Algebraic Topology, University of Copenhagen. Title: *Solid Spectra*. January 2022.

- Working group on Condensed Mathematics, Sorbonne Université. Title: *Solid A-Modules*. May 2021.
- Working group on Condensed Mathematics, Sorbonne Université. Title: *Condensed Abelian Groups*. March 2021.
- Math colloquium at the University of Iceland. Title: *Palindromes in Finite Groups*. February 2019.

### OTHER ACTIVITIES

- Organised an event celebrating cultural diversity in the mathematics department of the University of Copenhagen, September 2022.
- Organised the conference *Young Topologists' meeting* in Copenhagen, July 2022.
- Attended *Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry* at the Max Planck Institute for Mathematics in Bonn, June 2022.
- Completed a teaching mentorship program at the University of Copenhagen, where a group of teachers gave and received feedback from each other on teaching.
- Coached the Icelandic IMO (International Mathematical Olympiad) team in 2019 and 2020. I was in charge of coaching for one week each year, covering parts of the Algebra and Combinatorics curricula.
- Students' representative in meetings of the Department of Mathematics at the University of Iceland, academic year of 2017-2018. Responsible for ensuring that the department valued students' interests in all decisions.

### LANGUAGES

*Icelandic, English, Swedish, Danish, French.*

### HONOURS AND ACCOMPLISHMENTS

- Laureate of the Paris Graduate School of Mathematics (PGSM) scholarship awarded by Fondation Sciences Mathématiques de Paris (FSMP) to masters students in mathematics in Paris.
- Recipient of a grant from Landsbankinn, the major bank of Iceland, awarded annually to three exceptional prospective graduate students.
- Awardee of the Professor Sigurður Helgason fund for excellence in mathematics in 2018. Professor Sigurður Helgason of MIT is one of the most prominent mathematicians of the twentieth century and undoubtedly the best Icelandic mathematician of all time. In 2017, on his 90th birthday, he established a fund to award the most promising mathematics students in Iceland.
- Recipient of a grant from the University of Iceland Student Achievement and Incentive Fund awarded to the top new students at the University of Iceland in 2016.

- Recipient of grants for exceptional secondary school students from two of the major banks in Iceland, Landsbankinn in 2014 and Íslandsbanki in 2015.
- Represented Iceland at the International Mathematical Olympiad in 2014 and 2015. Received an Honourable mention in 2015 and was one point short of a bronze medal.
- Won second, third and fifth place in the Icelandic national mathematical olympiad in 2016, 2015 and 2014, first and third place in the national physics olympiad in 2016 and 2015, fourth place in the national chemistry olympiad in 2015 and fourth place in the national programming olympiad in 2016.