

## EDUCATION

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<b>Leiden University</b> Ph.D. in Astrophysics Supervisor: Prof. Ewine van Dishoeck	Leiden, Netherlands 2019–2023
<b>University of Cambridge</b> MPhil in Astrophysics Supervisor: Prof. Cathie Clarke – Thesis: “Observational consequences of planet migration”	Cambridge, UK 2018–2019
MASt (Part III) in Astrophysics	2017–2018
<b>University of St Andrews</b> B.Sc. in Astrophysics	St Andrews, UK 2013–2017

## RESEARCH INTERESTS

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Interstellar molecules, Planet formation, Submillimetre and infrared astronomy, Astrochemistry

## PROFESSIONAL EXPERIENCE

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<b>Leiden University</b> Graduate research assistant Supervisor: Prof. Ewine van Dishoeck	Leiden, Netherlands Oct 2019–Present
<b>University of Cambridge</b> Graduate research assistant Summer research assistant Supervisor: Prof. Cathie Clarke	Cambridge, UK Oct 2018–Aug 2019 June 2016–Aug 2016
<b>Harvard University</b> Summer research assistant Supervisor: Prof. Karin Öberg	Cambridge, US July 2017–Aug 2017
<b>University of St Andrews</b> Undergraduate research assistant Supervisor: Dr Claudia Cyganowski	St Andrews, UK Jan 2017–May 2017

## AWARDS

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| • Awarded funding from Leids Kerkhoven-Bosscha Fonds (LKBF)                                       | 2022      |
| • Sheepshanks Scholarship and Studentship in Astronomy (Trinity College, University of Cambridge) | 2017–2018 |
| • Harvard Origins of Life Initiative Undergraduate Research Award                                 | 2017      |
| • The Astrophysics Project Prize (University of St Andrews)                                       | 2017      |
| • Royal Astronomical Society Undergraduate Research Bursary (University of St Andrews)            | 2015      |

## PRESENTATIONS

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- **Invited talk at Niels Bohr Legacy Symposium in Astrochemistry** Copenhagen, 2022  
*‘Complex organic molecules toward low- and high-mass protostars’*
- **Invited talk at Astrochemistry Seminar** Leiden, 2022  
*‘Methanol emission from protostars: Can disks explain lack of emission from some sources?’*
- **Invited talk at Iranian National Observatory workshop** Online, 2022  
*‘Astrochemistry in the embedded phase of star formation’*
- **Invited talk at InterCat Centre meeting** Online, 2021  
*‘N-bearing complex organic molecules: From low- to high-mass protostars’*
- **Talk at Star formation meeting** Leiden, 2021  
*‘Methanol emission from protostars: Can disks explain lack of emission from some sources?’*
- **Contributed talk at Chemical processes in Solar-type star forming regions** Torino, 2021  
*‘Complex organic molecules: From low- to high-mass protostars’*
- **Contributed talk at Astrochemical Frontiers** Online, 2021  
*‘Methanol emission from protostars: Can disks explain lack of emission from some sources?’*
- **Invited talk at Astrochemistry Seminar** Leiden, 2021  
*‘Complex organic molecules in low-mass protostars’*
- **Contributed talk at ALMA day** Leiden, 2021  
*‘Complex organic molecules in low-mass protostars’*
- **Contributed talk at Five Years After HL Tau** Online, 2020  
*‘Observational consequences of planet migration’*
- **Seminar at Institute of Astronomy** Cambridge, 2020  
*‘N-bearing complex organic molecules in low-mass protostars’*
- **Talk at Trinity forum, Trinity college** Cambridge, 2019  
*‘Observational consequences of planet migration’*
- **Invited talk at Kavli Institute** Cambridge, 2019  
*‘Observational consequences of planet migration’*

## FIRST AUTHOR PUBLICATIONS (REFEREED)

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5. **P. Nazari**, B. Tabone, and G. P. Rosotti, “Importance of source structure on complex organics emission iii. effect of disks around massive protostars”, *submitted to A&A*, 2022
4. **P. Nazari**, J. D. Meijerhof, M. L. van Gelder, A. Ahmadi, E. F. van Dishoeck, B. Tabone, D. Langeroodi, N. F. W. Ligterink, J. Jaspers, M. T. Beltrán, G. A. Fuller, Á. Sánchez-Monge, and P. Schilke, “N-bearing complex organics toward high-mass protostars: Constant ratios pointing to formation in similar pre-stellar conditions across a large mass range”, *accepted by A&A*, 2022
3. **P. Nazari**, B. Tabone, G. P. Rosotti, M. L. van Gelder, R. Meshaka, and E. F. van Dishoeck, “Importance of source structure on complex organics emission. II. Do disks explain lack of methanol emission from low-mass protostars?”, *A&A*, vol. 663, A58, 2022
2. **P. Nazari**, M. L. van Gelder, E. F. van Dishoeck, B. Tabone, M. L. R. van’t Hoff, N. F. W. Ligterink, H. Beuther, A. C. A. Boogert, A. Caratti o Garatti, P. D. Klaassen, H. Linnartz, V. Taquet, and Ł. Tychoniec, “Complex organic molecules in low-mass protostars on Solar System scales. II. Nitrogen-bearing species”, *A&A*, vol. 650, A150, A150, 2021

1. **P. Nazari**, R. A. Booth, C. J. Clarke, G. P. Rosotti, M. Tazzari, A. Juhasz, and F. Meru, “[Revealing signatures of planets migrating in protoplanetary discs with ALMA multiwavelength observations](#)”, *MNRAS*, vol. 485, pp. 5914–5923, 2019

## CO-AUTHOR PUBLICATIONS (REFEREED)

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7. M. L. van Gelder, J. Jaspers, **P. Nazari**, A. Ahmadi, E. F. van Dishoeck, M. T. Beltrán, G. A. Fuller, Á. Sánchez-Monge, and P. Schilke, “[Methanol deuteration in high-mass protostars](#)”, *accepted by A&A*, 2022
6. M. L. van Gelder, **P. Nazari**, B. Tabone, A. Ahmadi, E. F. van Dishoeck, M. T. Beltrán, G. A. Fuller, N. Sakai, Á. Sánchez-Monge, P. Schilke, Y. .-L. Yang, and Y. Zhang, “[Importance of source structure on complex organics emission. I. Observations of CH<sub>3</sub>OH from low-mass to high-mass protostars](#)”, *A&A*, vol. 662, A67, 2022
5. N. G. C. Brunken, A. S. Booth, M. Leemker, **P. Nazari**, N. van der Marel, and E. F. van Dishoeck, “[A major asymmetric ice trap in a planet-forming disk. III. First detection of dimethyl ether](#)”, *A&A*, vol. 659, A29, 2022
4. G. M. Williams, C. J. Cyganowski, C. L. Brogan, T. R. Hunter, J. D. Ilee, **P. Nazari**, J. M. D. Kruijssen, R. J. Smith, and I. A. Bonnell, “[ALMA observations of the Extended Green Object G19.01-0.03 - I. A Keplerian disc in a massive protostellar system](#)”, *MNRAS*, vol. 509, no. 1, pp. 748–762, 2022
3. A. J. Cridland, G. P. Rosotti, B. Tabone, Ł. Tychoniec, M. McClure, **P. Nazari**, and E. F. van Dishoeck, “[Early planet formation in embedded protostellar disks. Setting the stage for the first generation of planetesimals](#)”, *A&A*, vol. 662, A90, 2022
2. F. Meru, G. P. Rosotti, R. A. Booth, **P. Nazari**, and C. J. Clarke, “[Is the ring inside or outside the planet?: the effect of planet migration on dust rings](#)”, *MNRAS*, vol. 482, pp. 3678–3695, 2019
1. J. D. Ilee, C. J. Cyganowski, **P. Nazari**, T. R. Hunter, C. L. Brogan, D. H. Forgan, and Q. Zhang, “[G11.92-0.61 MM1: a Keplerian disc around a massive young proto-O star](#)”, *MNRAS*, vol. 462, pp. 4386–4401, 2016

## TEACHING AND MENTORING

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- **Teaching Assistant** of ‘Astrochemistry’ course taught by Prof. Ewine van Dishoeck 2022  
*Leiden Observatory*
- **Daily supervisor** of a LEAPS student (Jasmine Cheung) Summer 2021  
*Leiden Observatory*
- **Daily supervisor** of three MSc students (Jurrian Meijerhof, Jeroen Jaspers and Casper Spijker) 2020-2022  
*Leiden Observatory*
- **Teaching Assistant** of ‘Star and Planet Formation’ course taught by Prof. Ewine van Dishoeck and Dr. Melissa McClure 2019-2020, 2022  
*Leiden Observatory*

## SELECTED OUTREACH AND SERVICE ACTIVITIES

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- **Organiser of the NOVA Network II seminars in the Netherlands, 2019-2022**
- **Author of a CASSIS manual, 2022**

- ALMA proposal reviewer, 2021-2022
- Invited talk at Astronomy on Tap, 2021
- Author at [She Speaks Science](#), 2018

## REFERENCES

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- **Prof. Ewine van Dishoeck**  
Leiden Observatory, Leiden University, P.O. Box 9513, 2300 RA Leiden, the Netherlands  
[ewine@strw.leidenuniv.nl](mailto:ewine@strw.leidenuniv.nl)
- **Prof. Cathie Clarke**  
Institute of Astronomy, University of Cambridge, Madingley Road, Cambridge, England CB3 0HA  
[cclarke@ast.cam.ac.uk](mailto:cclarke@ast.cam.ac.uk)
- **Prof. Karin Oberg**  
Harvard-Smithsonian Centre for Astrophysics, 60 Garden Street, MS 16, Cambridge, USA, MA 02138  
[koberg@cfa.harvard.edu](mailto:koberg@cfa.harvard.edu)
- **Dr. Giovanni Rosotti**  
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