

EDUCATION

Leiden University Ph.D. in Astrophysics Supervisor: Prof. Ewine van Dishoeck – Thesis: “Complex organic molecules around low- and high-mass protostars”	Leiden, Netherlands 2019–2023
University of Cambridge MPhil in Astrophysics Supervisor: Prof. Cathie Clarke – Thesis: “Observational consequences of planet migration”	Cambridge, UK 2018–2019
MASt (Part III) in Astrophysics	2017–2018
University of St Andrews B.Sc. in Astrophysics	St Andrews, UK 2013–2017

RESEARCH INTERESTS

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

PROFESSIONAL EXPERIENCE

Harvard University Extended research visit [expected] Supervisor: Prof. Karin Öberg	Cambridge, US Oct 2022–Nov 2022
Leiden University Graduate research assistant Supervisor: Prof. Ewine van Dishoeck	Leiden, Netherlands Oct 2019–Present
University of Cambridge Graduate research assistant Summer research assistant Supervisor: Prof. Cathie Clarke	Cambridge, UK Oct 2018–Aug 2019 June 2016–Aug 2016
Harvard University Summer research assistant Supervisor: Prof. Karin Öberg	Cambridge, US July 2017–Aug 2017
University of St Andrews Undergraduate research assistant Supervisor: Dr Claudia Cyganowski	St Andrews, UK Jan 2017–May 2017

AWARDS

- | | |
|---|-----------|
| • 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

I have given 18 talks, including 6 *invited* talks.

- **Origins seminar series [expected]** University of Arizona, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Lunch talk [expected]** University of Virginia/NRAO, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Star and planet formation meeting [expected]** University of Michigan, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Star formation journal club [expected]** Harvard University, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Invited talk at Niels Bohr Legacy Symposium in Astrochemistry [expected]** Copenhagen University, 2022
‘Complex organic molecules toward low- and high-mass protostars’
- **Invited talk at Astrochemistry Seminar** Leiden University, 2022
‘Can disks explain lack of COM emission from low-mass protostars?’
- **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 University, 2021
‘Methanol emission from protostars: Can disks explain lack of emission from some sources?’
- **Informal seminar at Centre for Star and Planet Formation** Copenhagen University, 2021
‘Complex organic molecules: From low- to high-mass protostars’
- **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 University, 2021
‘Complex organic molecules in low-mass protostars’
- **Contributed talk at ALMA day** Leiden University, 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** University of Cambridge, 2020
‘N-bearing complex organic molecules in low-mass protostars’
- **Talk at Trinity forum, Trinity college** University of Cambridge, 2019
‘Observational consequences of planet migration’
- **Invited talk at Kavli Institute** University of Cambridge, 2019
‘Observational consequences of planet migration’

FIRST AUTHOR AND SIGNIFICANT CONTRIBUTING AUTHOR PUBLICATIONS (REFEREED)

7. **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
6. **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
5. 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
4. **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
3. 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 CH₃OH from low-mass to high-mass protostars”, *A&A*, vol. 662, A67, 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

OTHER CO-AUTHOR PUBLICATIONS (REFEREED)

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

- **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 2020, 2021, 2022
Leiden Observatory

SELECTED OUTREACH AND SERVICE ACTIVITIES

- **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

- **Prof. Ewine van Dishoeck**
Leiden Observatory, Leiden University, P.O. Box 9513, 2300 RA Leiden, the Netherlands
ewine@strw.leidenuniv.nl
- **Prof. Cathie Clarke**
Institute of Astronomy, University of Cambridge, Madingley Road, Cambridge, England CB3 0HA
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
- **Dr. Giovanni Rosotti**
School of Physics and Astronomy, University of Leicester, University Road, Leicester, England LE1 7RH
g.rosotti@leicester.ac.uk