

POSITIONS

ESO fellow Garching, Germany	Oct 2023–Oct 2026
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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–expected 2023
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University of Cambridge MPhil in Astrophysics Supervisor: Prof. Cathie Clarke – Thesis: “Observational consequences of planet migration”	Cambridge, UK 2018–2019
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MASt (Part III) in Astrophysics	2017–2018
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University of St Andrews B.Sc. in Astrophysics	St Andrews, UK 2013–2017
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RESEARCH EXPERIENCE

Graduate research assistant, Leiden University	Oct 2019–Present
Extended research visit, Harvard University	Oct 2022–Nov 2022
Graduate research assistant, University of Cambridge	Oct 2018–Aug 2019
Research assistant, Universities of St Andrews, Cambridge and Harvard University	Summers 2015–2018

RESEARCH INTERESTS

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

AWARDS

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| • ESO Fellowship | 2023–2026 |
| • Awarded funding from Leids Kerkhoven-Bosscha Fonds (LKBF) | 2022 |
| • Sheepshanks Scholarship and Studentship in Astronomy (Trinity College, 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 21 talks, including 6 *invited* talks.

- **NOVA Network II seminar** Netherlands, 2023
‘Complex organic molecules around protostars’
- **Blaauw workshop** University of Groningen, 2023
‘Evidence for ubiquitous carbon grain destruction around young protostars’
- **Origins seminar series** University of Arizona, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Lunch talk** University of Virginia/NRAO, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Star and planet formation meeting** University of Michigan, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Star formation journal club** Harvard University, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Disk and Astrochemistry meeting** Harvard University, 2022
‘Complex organic molecules around low- and high-mass protostars’
- **Invited talk at Niels Bohr Legacy Symposium in Astrochemistry** 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’
- **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’
- **Contributed 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 CONTRIBUTOR PUBLICATIONS

7. **P. Nazari**, B. Tabone, and G. P. Rosotti, “Importance of source structure on complex organics emission. III. Effect of disks around massive protostars”, *A&A*, vol. 671, A107, 2023
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”, *A&A*, vol. 668, A109, 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”, *A&A*, vol. 667, A136, 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

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, See press release
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, See press release
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, See press release

TEACHING AND MENTORING

- **Teaching Assistant** of ‘Astrochemistry’ course taught by Prof. Ewine van Dishoeck
Leiden Observatory 2022
- **Daily supervisor** of a LEAPS student
Leiden Observatory Summer 2021
- **Daily supervisor** of three MSc students
Leiden Observatory 2020-2022
- **Teaching Assistant** of ‘Star and Planet Formation’ course taught by Prof. Ewine van Dishoeck and Dr. Melissa McClure
Leiden Observatory 2020, 2021, 2022

SELECTED OUTREACH AND SERVICE ACTIVITIES

- **Organiser of the NOVA Network II seminars in the Netherlands, 2019-2022**
- **Main 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**
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- **Dr. Giovanni Rosotti**
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- **Prof. Cathie Clarke**
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