

Pooneh Nazari

Personal Website

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Niels Bohrweg 2
2333 CA, Leiden



EDUCATION

Leiden University

Ph.D. in Astrophysics
Supervisor: Prof. Ewine van Dishoeck

Leiden, Netherlands
2019–Present

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

RESEARCH POSITIONS

Leiden University

Graduate research assistant
Supervisor: Prof. Ewine van Dishoeck

Leiden, Netherlands
Oct 2019–Present

University of Cambridge

Graduate research assistant
Supervisor: Prof. Cathie Clarke

Cambridge, UK
Oct 2018–Aug 2019

Summer research assistant
Supervisor: Prof. Cathie Clarke

Jul 2018–Oct 2019

Graduate research assistant
Supervisor: Dr Ghina Halabi

Oct 2017–Jun 2018

Summer research assistant
Supervisors: Dr Farzana Meru, Dr Giovanni Rosotti

Jun 2016–Aug 2016

Harvard University

Summer research assistant
Supervisor: Prof. Karin Öberg

Cambridge, US
Jul 2017–Aug 2017

Research visitor
Supervisor: Prof. Karin Öberg

Aug 2016

AWARDS

- 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
- School of Physics and Astronomy Student Internship (University of St Andrews) 2015

REFEREED PUBLICATIONS (FIRST AUTHOR)

- [1] **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. Can disks explain lack of methanol emission from some low-mass protostars?](#)”, *A&A*, 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.
- [3] **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.

REFEREED PUBLICATIONS (CO-AUTHOR)

- [4] 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, A29, 2022.
- [5] 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*, 2022.
- [6] 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.
- [7] 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.
- [8] 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

- **Teaching Assistant** for Astrochemistry course 2022
Leiden Observatory
- **Daily supervisor** of a LEAPS student Summer 2021
Leiden Observatory
- **Daily supervisor** of three MSc students 2020-2022
Leiden Observatory
- **Teaching Assistant** for SPF course 2019-2020
Leiden Observatory

OUTREACH AND OTHER ACTIVITIES

- **Organiser of the NOVA Network II in the Netherlands** 2019-2022
Leiden Observatory
- **Main author of a CASSIS manual** 2022
- **ALMA proposal reviewer** 2021
- **Invited talk at Astronomy on Tap** 2021
Leiden
- **Author at [She Speaks Science](#)** 2018
- **Member of Social committee** 2019-2021
Leiden Observatory
- **Member of Trinity Responsible Investment Society committee** 2018-2019
Cambridge, UK
- **Trinity BA Catering Officer** 2018-2019
Cambridge, UK

PRESENTATIONS

- **Invited talk at Iranian National Observatory workshop, online, 2022**
- **Invited talk at InterCat Centre meeting, online, 2021**
- **Talk at Star formation meeting, Leiden University, 2021**
- **Contributed talk at Chemical processes in Solar-type star forming regions, Torino, 2021**
- **Contributed talk at Astrochemical Frontiers, online, 2021**
- **Talk at Astrochemistry Seminar, Leiden University, 2021**
- **Contributed talk at ALMA day, Leiden Observatory, 2021**
- **Contributed talk at Five Years After HL Tau, online conference, 2020**
- **Seminar at Institute of Astronomy, University of Cambridge, 2020**
- **Seminar at Kavli Institute, University of Cambridge, 2019**

REFEREES

- Prof. Ewine van Dishoeck (supervisor) Leiden Observatory, Leiden University, P.O. Box 9513, 2300 RA Leiden, the Netherlands
- Prof. Cathie Clarke (supervisor) Institute of Astronomy, University of Cambridge, Madingley Road, Cambridge, England CB3 0HA
- Dr Claudia Cyganowski (supervisor, lecturer and tutor) School of Physics and Astronomy, University of St Andrews, North Haugh, St Andrews, Scotland KY16 9SS
- Prof. Karin Oberg (supervisor) Harvard-Smithsonian Centre for Astrophysics, 60 Garden Street, MS 16, Cambridge, USA, MA 02138