

# Pooneh Nazari

## Personal Website

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Niels Bohrweg 2  
2333 CA, Leiden



## EDUCATION

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### 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

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

## PROFESSIONAL EXPERIENCE

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### 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

### Harvard University

Summer research assistant  
Supervisor: Prof. Karin Öberg

Cambridge, US  
Jul 2017–Aug 2017

### University of St Andrews

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

## REFEREED PUBLICATIONS (FIRST AUTHOR)

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- [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)

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- [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 CH<sub>3</sub>OH 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 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 Summer 2021  
*Leiden Observatory*
- **Daily supervisor** of three MSc students 2020-2022  
*Leiden Observatory*
- **Teaching Assistant** of ‘Star and Planet Formation’ course taught by Prof. Ewine van Dishoeck and Dr. Melissa McClure 2019-2020  
*Leiden Observatory*

## SELECTED OUTREACH AND SERVICE ACTIVITIES

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- **Organiser of the NOVA Network II seminars in the Netherlands** 2019-2022  
*Leiden Observatory*
- **Author of a CASSIS manual** 2022
- **ALMA proposal reviewer** 2021
- **Invited talk at Astronomy on Tap** 2021  
*Leiden*
- **Author at [She Speaks Science](#)** 2018

## PRESENTATIONS

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- **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**
- **Invited talk at Kavli Institute, University of Cambridge, 2019**

## REFEREES

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- 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