

CONTACT INFORMATION Homer L. Dodge Department of Physics and Astronomy phone: +358 505580153
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EDUCATION **Doctor of Science (Tech.)**

Institute: Aalto University School of Electrical Engineering, Espoo, Finland
Contact information: doctoral-elec@aalto.fi, +358 40 5860864
Major: Space Technology
Date of defence: 12 October 2018, the degree awarded: 25 October 2018

Master of Science

Institute: University of Helsinki, Finland
Major: Astronomy
Graduation date: 14 February 2014

Bachelor of Science

Institute: University of Helsinki, Finland
Major: Astronomy
Graduation date: 14 February 2014

LANGUAGE SKILLS FINNISH Native
ENGLISH Fluent
SWEDISH Good

TECHNICAL SKILLS Numerical software: Matlab/Octave, Mathematica
Astronomical software: IRAF, GALFIT, CASA, AIPS, Xspec, Fermi tools
Programming: Java, Fortran, Python, Shell programming
Applications: L^AT_EX, common applications for Windows and Linux
Operating systems: Linux and Microsoft Windows

OTHER SKILLS US driving license, D
Finnish driving licence, BC
Finnish aviation licence, UPL

CURRENT POSITION **Texas Tech University, Department of Physics and Astronomy, Lubbock, TX, USA**
Assistant Professor September 2024 –

WORK EXPERIENCE **The University of Oklahoma, Homer L. Dodge Department of Physics and Astronomy, Norman, OK, USA**
Dodge Family Prize Fellow January 2023 – August 2024
Narrow-line Seyfert 1 galaxies

European Space Agency / European Space Astronomy Centre, Madrid, Spain
Internal Research Fellow December 2019 – November 2022
Narrow-line Seyfert 1 galaxies

University of California Santa Barbara, Department of Physics, Santa Barbara, CA, USA

Postdoctoral Researcher
Narrow-line Seyfert 1 galaxies

April 2019 to November 2019

**Aalto University Metsähovi Radio Observatory, Kylmälä, Finland, and
Department of Electronics and Nanoengineering, Espoo, Finland**

Doctoral Candidate
Narrow-line Seyfert 1 galaxies

March 2014 to October 2018

Aalto University Metsähovi Radio Observatory, Kylmälä, Finland

Research Assistant
Assistant in AGN and solar science
Master's thesis

**October 2013 to February 2014
May 2010 to December 2012**

Finnish Centre for Astronomy with ESO (FINCA), Turku, Finland

Research Assistant
Assistant in AGN science

June 2013 to August 2013

Helsinki Observatory, Helsinki, Finland

Guide
Guide in the Helsinki University Museum's Centre for Astronomy

October 2012 to March 2014

AWARDED FUNDING
AND GRANTS AS A
PI

A total of 247848€ and a ~300000€ Fellowship

European Southern Observatory, Research visit to ESO Santiago, Chile, November 2023, 1730€

European Space Agency, For organising the Panchromatic view of the lifecycle of AGN -workshop, Madrid, Spain, 2020, 2604€

University of Padova, One-month research visit to the University of Padova, Italy, November-December 2021, 3500€

European Space Agency, 3-year Research Fellowship, 2019, ~300000€

Finnish Foundations' Post Doc Pool, Postdoctoral research at the University of California Santa Barbara, Santa Barbara, USA, 2019, 54000€

Finnish Cultural Foundation, Postdoctoral research, 2019, 15000€

Finnish Centre for Astronomy with ESO (FINCA), Research visits to Tartu Observatory, Estonia, November 2018 and January-February 2019, 3104€

RadioNet, Revisiting Narrow-line Seyfert 1 galaxies and their place in the Universe -conference, Padova, Italy, 9.-13.4.2018, 550€

Finnish Cultural Foundation, PhD studies, 1.3.-31.8.2018, 12000€

Magnus Ehrnrooth Foundation, AGN - what's in a name? -conference, Garching, Germany, 27.6.-1.7.2016, 1360€

Vilho, Yrjö and Kalle Väisälä Foundation, Research visit to Brera Astronomical Observatory, Merate, Italy, 5.4.-19.5.2016, 3000€

Finnish Centre for Astronomy with ESO (FINCA), 28th Texas Symposium on Relativistic Astrophysics, Geneva, Switzerland, 13.-18.12.2015, 1000€

Aalto University School of Electrical Engineering's Doctoral School, 3.5-year funding for PhD studies, September 2014 - February 2018, ~150000€

Observed on

Apache Point Observatory 3.5m telescope, KOSMOS, July 2023
IRAM 30m radio telescope, EMIR and NIKA2, October 2022
Nordic Optical Telescope, NOTCam, November 2014, March 2017, February 2020
Metsähovi Radio Observatory 14m radio telescope, Finland, May 2010 - October 2018

Accepted proposals

2024

Sardinia Radio Telescope, 32.5 hours (ID 8-24, PI L. Crepaldi)

2023

ESO, Very Large Telescope, MUSE, 62 hours (113.269R, PI M. Berton)
XMM-Newton, 44 ks (ID 094131, PI A. Vietri)
ESO, Very Large Telescope, FORS2 1.8 hours (ID 094131, PI A. Vietri)
Sardinia Radio Telescope, 32.5 hours (ID 23-21, PI L. Crepaldi)
ESO, New Technology Telescope, EFOSC2, 11 nights (ID P112.25L4, PI A. Vietri)
Apache Point Observatory 3.5m, KOSMOS, 10 hours (PI **E. Järvelä**)

2022

ESO, ERIS SV, 1.3 hours (110.257D, PI M. Berton)
NRAO, Karl G. Jansky Very Large Array, 6.64 hours (ID 23A-043, PI **E. Järvelä**)
NRAO, Karl G. Jansky Very Large Array, 41.20 hours (ID 23A-061, PI M. Berton)
Gran Telescopio CANARIAS, OSIRIS, 6.30 hours (GTC26-22B, PI **E. Järvelä**)
Gran Telescopio CANARIAS, OSIRIS, 8.25 hours (GTC33-22B, PI **E. Järvelä**)
NRAO, Karl G. Jansky Very Large Array, 26.03 hours (ID 22B-034, PI M. Berton)
Institut de Radioastronomie Millimétrique, 30-m NIKA2, 16.8 hours (No. 032-22, PI **E. Järvelä**)
Institut de Radioastronomie Millimétrique, 30-m EMIR, 21 hours (No. 031-22, PI Q. Salomé)
Effelsberg 100-m Radio Telescope, 72 hours (#25-22, PI **E. Järvelä**)
Nordic Optical Telescope, ALFOSC, Fast-track request (ID 64-415, PI A. Lähteenmäki)
Telescopio Nazionale Galileo, Dolores, Target of Opportunity request (PI A. Vietri)

2021

XMM-Newton, 138ks (ID 090277, PI S. Tripathi)
Nordic Optical Telescope, ALFOSC, Fast-track request (ID 64-407, PI I. Björklund)
NRAO, Very Long Baseline Array, 10 hours (ID 22A-003, PI **E. Järvelä**)
NRAO, Karl G. Jansky Very Large Array, 15.2 hours (ID 22A-002, PI **E. Järvelä**)
Nordic Optical Telescope, ALFOSC, Fast-track request (ID 63-409, PI I. Björklund)
Effelsberg 100-m Radio Telescope, 12 hours (#69-21, PI **E. Järvelä**)
NRAO, Very Long Baseline Array, 5 hours (ID 21B-008, PI S. Chen)

2020

Giant Metrewave Radio Telescope, 13 hours (Proposal code 39_006, PI S. Chen)
Australia Telescope Compact Array, 25 hours (Project code C3329, PI S. Chen)
NRAO, Karl G. Jansky Very Large Array, 19 hours (ID 20B-081, PI M. Berton)
ESO, New Technology Telescope, EFOSC2, 3 nights (ID P0106.B-0423, PI M. Berton)
Effelsberg 100-m Radio Telescope, 12 hours (#71-20, PI **E. Järvelä**)
Nordic Optical Telescope, ALFOSC, Fast-track request (ID 61-416, PI M. Berton)

2019

Australia Telescope Compact Array, 35 hours (Project code C3329, PI S. Chen)
XMM-Newton, 19ks (ID 086064, PI A. Lähteenmäki)
Nordic Optical Telescope, NOTCam, 5 nights (ID 60-005, PI **E. Järvelä**)

ESO, New Technology Telescope, EFOSC2, 8 nights (ID 0104.B-0587, PI M. Berton)
NRAO, Karl G. Jansky Very Large Array, 12 hours (ID 19A-200, PI M. Berton)
Nordic Optical Telescope, ALFOSC, Fast-track request (ID 59-416, PI M. Berton)
NRAO, Karl G. Jansky Very Large Array, Exploratory DDT request (ID 19B-285, PI M. Berton)

2018

Nordic Optical Telescope, NOTCam, Fast-track request (ID 57-418, PI **E. Järvelä**)
Nordic Optical Telescope, ALFOSC, Fast-track request (ID 57-404, PI **E. Järvelä**)

2017

Nordic Optical Telescope, ALFOSC, Fast-track request (ID 55-410, PI **E. Järvelä**)
Telescopio Nazionale Galileo, Dolores, Director Discretionary Time request (PI E. Congiu)
Swift UVOT/XRT, ToO request (ID 36390, PI M. Berton)

2016

Nordic Optical Telescope, ALFOSC, Fast-track request (ID 53-405, PI **E. Järvelä**)
EVN, e-VLBI, 24 hours (Code: EJ018, PI **E. Järvelä**)
Large Binocular Telescope, 2 nights (PI M. Berton)
Institut de Radioastronomie Millimétrique, NOEMA (S17BE, PI M. Berton)
Nordic Optical Telescope, NOTCam, 4 nights (ID 54-023, PI **E. Järvelä**)

RESEARCH OUTPUT 47 publications in refereed journals (7 first-author, 8 second-author), h-index 20
14 contributed talks at international conferences, 8 invited talks and seminars

INTERNATIONAL EXPERIENCE

Research visits

European Southern Observatory, Santiago, Chile, November 20 - December 2, 2023
Aalto University Metsähovi Radio Observatory, Kylmälä, Finland, July 3-7, 2023
Max Planck Institute for Radio Astronomy, Bonn, Germany, November 7-9, 2022
University of Padova, Padova, Italy, November 15 - December 14, 2021
Saint Mary's University, Halifax, Nova Scotia, Canada, September 4-18, 2019
Purdue University, West Lafayette, Indiana, USA, June 10-22, 2019
Tartu Observatory, Tõravere, Estonia, April 18-21, 2017, September 25-26, 2017, April 23-26, 2018, November 5-23, 2018, February 11-21, 2019
Brera Astronomical Observatory, Merate, Italy, April 4 - May 19, 2016

TEACHING AND MENTORING EXPERIENCE

PhD theses

Luca Crepaldi (University of Padova, Italy) | **co-supervisor**
Characterisation of the absorbed jets in narrow-line Seyfert 1 galaxies, 2022 -
Shashikant Gupta (Aalto University, Finland) | **advisor**
Classification and multifrequency properties of narrow-line Seyfert 1 galaxies, 2022 -
Amelia Vietri (University of Padova, Italy) | **co-supervisor**
Radio and optical properties of a southern sample of narrow-line Seyfert 1 galaxies, 2021 -
Irene Varglund (Aalto University, Finland) | **co-advisor**
Narrow-line Seyfert 1 galaxies in the young AGN unification, 2020 -

Master's theses

Guillermo García López (Universidad Complutense Madrid, Spain) | **supervisor**
Narrow-line Seyfert 1 galaxies at 3 GHz seen by Very Large Array Sky Survey, graduated in September 2022
Luca Crepaldi (University of Padova, Italy) | **advisor**

Nearby environments of active galactic nuclei along the quasar main sequence, graduated in April 2022

Amelia Vietri (University of Padova, Italy) | **advisor**

Radio and near-infrared morphology of NLS1 J0354–1340, graduated in July 2021

Research projects

Rana Osman (University of Colorado Boulder, USA) | **advisor**

Gamma-ray properties of the narrow-line Seyfert 1 galaxy population, The University of Oklahoma, summer 2024

Alice Heranval (Georgia Institute of Technology, USA) | **advisor**

mm properties of narrow-line Seyfert 1 galaxies, The University of Oklahoma, summer 2023

Rohan Dahale (IISER Kolkata, India) | **advisor**

Origin of radio emission in narrow-line Seyfert 1 galaxies, University of California Santa Barbara, summer 2019

Mentor

Supernova Foundation, 2021 -

University of Helsinki Group Mentoring Programme, 2023 -

Teaching assistant

Radio astronomy (spring 2015)

Astronomical View of the World (spring 2015, 2016)

Introduction to Space (spring 2016)

Training of seven new observers to operate the 14m MRO radio telescope

OTHER ACADEMIC MERITS

Service

Member of the Editorial Board of *Scientific Reports* of Nature Research, 2021 -

Associate Editor of *Frontiers in Astronomy and Space Science* (Extragalactic Astronomy), 2020 -

Member of the Community and Inclusion Committee of the Homer L. Dodge Department of Physics and Astronomy, The University of Oklahoma, 2023 -

Reviewer of the observing proposals for: ESO (Distributed Peer Review, 2022), GMRT (2022), *Swift* (Peer Review, AGN Panel, 2023), NRAO (Low-luminosity AGN Science Review Panel, 2024-2026), NOIRLab (AGN Time Allocation Committee, 2024-2026)

Reviewer of the grant applications for: NSF (AGN panel for the Astronomy and Astrophysics Grant program in the Division of Astronomical Sciences, 2024)

Reviewer for: *Astronomy & Astrophysics*, *The Astrophysical Journal*, *Monthly Notices of the Royal Astronomical Society*, *Galaxies*, *The Open Journal of Astrophysics*

Member of the Equity, Diversity, and Inclusion committee in ESA (2021-2022)

Member, secretary, and treasurer of the IAU Finnish National Committee for Astronomy (2015-2018)

Board member (2013-2018), secretary (2014-2015), and treasurer (2015-2017) of The Finnish Astronomical Society

Invited member of the graduation committee in the University of Padova, Italy (July 2021, April 2022)

Chairperson of the Scientific Organising Committee and the Local Organising Committee for the “Panchromatic view of the life-cycle of AGN” -workshop in ESA/ESAC (2022)

Member of the Local Organising Committee for the Finnish Astronomers’ Days (2014, 2016)

Professional memberships

American Astronomical Society, American Physical Society and APS Astrophysics Division, European Astronomical Society, The Finnish Astronomical Society