

Tim Linden

ASSOCIATE PROFESSOR · STOCKHOLM UNIVERSITY

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Employment

Stockholm University

Stockholm, Sweden

ASSOCIATE PROFESSOR

Jan. 2020 – Present

- Department of Physics
- Assistant Professor (Jan 2020 – Jan 2024); Associate Professor (Jan 2024 – Present)
- Deputy Director of the Oskar Klein Centre

The Ohio State University

Columbus, OH

POSTDOCTORAL FELLOW

July 2015 — Jan. 2020

- Center for Cosmology and AstroParticle Physics Fellow (July 2015 — Present)
- Einstein Postdoctoral Fellow (July 2015 — June 2016)

University of Chicago

Chicago, IL

POSTDOCTORAL FELLOW

July 2013 — June 2015

- Kavli Institute for Cosmological Physics Postdoctoral Fellow
- Einstein Postdoctoral Fellow

Education

University of California, Santa Cruz

Santa Cruz, CA

PH.D. IN PHYSICS

Sept. 2008 — June 2013

- Thesis: *Dark Matter Annihilation in the Galactic Center*
- Advisor: Stefano Profumo

Northwestern University

Evanston, IL

B.A. IN INTEGRATED SCIENCE PROGRAM, PHYSICS, MATHEMATICS

Sept. 2004 — June 2008

Publication Statistics

115 articles and letters (109 accepted, 6 under review)

inspire: **7180** citations, h-index: **46**

Presentation Statistics

107 conference presentations, seminars, and colloquia since January 1, 2017

23 Physics or Astronomy Department colloquia

29 invited conference presentations

Accepted Proposals and Current Support

16 accepted proposals (**4** provide current funding)

Significant Honors & Awards

2018 **Michelson Postdoctoral Prize Lectureship**

Case Western Reserve University

2013 — 2016 **Einstein Postdoctoral Fellowship**

NASA

Accepted Proposals

Using Fermi-LAT Gamma Rays to Understand Solar Physics

PRIMARY INVESTIGATOR

Rymdstyrelsen Project Grant

Jan. 2024 — Dec. 2027

EDUCATE: Excellence Dark Universe Centre and Technology Enabler

CO-INVESTIGATOR (PI: ARIEL GOOBAR)

Vetenskapsrådet Excellence Centre

Jan. 2024 — Dec. 2029

Non-equilibrium dynamics in the Milky Way and Local Group

PI(ADVISOR/HOST); SCIENCE PI - AXEL WIDMARK

Marie Curie Action

January. 2024 — Dec. 2026

Shedding New Light on the Milky Way with TeV Electrons

PRIMARY INVESTIGATOR

Vetenskapsrådet Consolidator Grant

Jan. 2023 — Dec. 2027

Illuminating WIMP Dark Matter with Resilient Astrophysical Emission Models

PRIMARY INVESTIGATOR

Rymdstyrelsen Starting Grant

Jan. 2020 — Dec. 2023

Using TeV Gamma-Rays to Shed Light on Cosmic-Ray Propagation

PRIMARY INVESTIGATOR

Vetenskapsrådet Starting Grant

Jan. 2020 — Dec. 2023

Correlating Fermi-LAT and ASAS-SN Data to Understand Blazars

PRIMARY INVESTIGATOR

Fermi GI Cycle 12

Oct. 2019 — Sept. 2020

The mysterious solar gamma-ray emission: Powerful new tests at low energies

CO-INVESTIGATOR (PI: ANNIKA PETER)

Fermi GI Cycle 12

Oct. 2019 — Sept. 2020

Illuminating Inner Heliospheric Cosmic Rays with Gamma Rays

CO-INVESTIGATOR (PI: ANNIKA PETER)

Fermi GI Cycle 11

August 2018 — July 2019

Using XMM to study the TeV Halos Surrounding Energetic Pulsars

CO-INVESTIGATOR (PI: KATIE AUCHETTL)

XMM-Newton AO-17

87 kS Observation (Oct. 2018)

Novel Diffuse Emission Models for the Central Molecular Zone

PRIMARY INVESTIGATOR

Fermi GI Cycle 10

October 2017 — Sept. 2018

Using Fermi Dark Matter Annihilation Constraints to Probe the Early Universe

CO-INVESTIGATOR (PI: ADRIENNE ERICKCEK)

Fermi GI Cycle 10

October 2017 — Sept. 2018

Revealing the Sun's Coronal Magnetic Fields with Gamma Rays

CO-INVESTIGATOR (PI: ANNIKA PETER)

Fermi GI Cycle 10

October 2017 — Sept. 2018

Understanding γ -Rays from the Galactic Center: Constraining Millisecond Pulsars

CO-INVESTIGATOR (PI: FABIO ANTONINI)

Fermi GI Cycle 8

October 2015 — Sept. 2016

The Smith Cloud: A High-Velocity Cloud Confined by Dark Matter

PRIMARY INVESTIGATOR

Fermi GI Cycle 6

August 2013 — July 2014

A Multiwavelength Model for Novel Physics in the Galactic Center

FELLOWSHIP RECIPIENT (PI, CHICAGO: DAN HOOPER, PI, OHIO STATE: ANNIKA PETER)

Einstein Fellowship

July 2013 — June 2016

Service and Institutional Responsibilities

Oskar Klein Center

STEERING GROUP MEMBER; DEPUTY DIRECTOR (2024 – PRESENT)

2022 – Present

Swedish National Committee on Astronomy

DELEGATE AND STOCKHOLM UNIVERSITY REPRESENTATIVE

2023 – Present

EuCAPT European Consortium for Astroparticle Theory)

STOCKHOLM REPRESENTATIVE (2022–PRESENT); CHAIR OF THE EQUALITY DIVERSITY AND INCLUSION COMMITTEE (2024–PRESENT)

2022 – Present

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| Stockholm University OUTREACH COMMITTEE | 2020 – Present |
| TeV Particle Astrophysics Conference (TeVPA)) INTERNATIONAL ORGANIZING COMMITTEE | 2019 – Present |
| International Fermi Symposium SCIENTIFIC ORGANIZING COMMITTEE | 2018, 2020 (cancelled), 2022 |
| Co-Chair of Local Organizing Committee TeVPA 2017 INTERNATIONAL CONFERENCE | Summer 2017 |
| Referee NATURE ASTRONOMY, NATURE COMMUNICATIONS, PHYSICAL REVIEW LETTERS, PHYSICAL REVIEW, ASTROPHYSICAL JOURNAL LETTERS, ASTROPHYSICAL JOURNAL, MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, JOURNAL OF HIGH ENERGY PHYSICS, JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, ASTRONOMY & ASTROPHYSICS | 2009 – |
| Proposal Referee ICELANDIC RESEARCH FUND (2019), NASA POSTDOCTORAL FELLOWSHIP PROGRAM (2016, 2017, 2018), ROYAL SOCIETY RESEARCH FELLOWSHIP (2015), NASA NESSF PROGRAM (2015), EUROPEAN SPACE AGENCY (2015) | 2015 – |
| Proposal Panelist NATIONAL SCIENCE FOUNDATION (2016, 2017, 2023), NASA FERMI (2016), NASA THEORY (2017, 2018) | 2016 – |

Mentored Students and Postdocs

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|---|---|
| Thong Nguyen PHD STUDENT, STOCKHOLM UNIVERSITY (MAIN SUPERVISOR) | 2024 – Present |
| Pierluca Carenza POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | 2024 – Present |
| Axel Widmark POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY (AND COLUMBIA UNIVERSITY) | 2023 – Present |
| Milena Crnogorčević POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | 2023 – Present |
| Oindrila Ghosh POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | 2023 – Present |
| Sunniva Jacobsen (primary advisor: Katie Freese) GRADUATE STUDENT, STOCKHOLM UNIVERSITY | Now: Data Scientist at Savantic AB 2021 – 2024 |
| Isabelle John GRADUATE STUDENT, STOCKHOLM UNIVERSITY (MAIN SUPERVISOR) | Now: Postdoctoral Fellow at Turin 2020 – 2024 |
| Michael Korsmeier POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | Now: Data Scientist at Savantic AB 2020 – 2023 |
| Pedro de la Torre Luque POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | Now: Postdoctoral Fellow at U. of Madrid 2021 – 2023 |
| Oskar Svenborn (with: Evan O'Connor) MASTERS STUDENT, STOCKHOLM UNIVERSITY (ASTRONOMY) | Now: Data Scientist at PerkinElmer 2022 – 2023 |
| Juri Smirnov POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | Now: Asst. Prof at U. Liverpool 2021 – Present |
| Carlos Blanco POSTDOCTORAL FELLOW, STOCKHOLM UNIVERSITY | Now: Assistant Prof. at Penn State 2020 – 2022 |
| Federico Gremmo MASTERS STUDENT, STOCKHOLM UNIVERSITY | Master's Thesis Defended, Nov. 2022 2021 – 2022 |