PERSONAL INFORMATION _____

Name:	Aurel Schneider	
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SUMMARY _____

SNSF Eccellenza professor and group leader at the Department of Astrophysics, University of Zurich. Expert in theoretical/numerical cosmology, astrophysical structure formation, and dark matter physics.

EDUCATION _____

10/2008 - 08/2012	Ph.D. in Physics, University of Zurich, Switzerland; title: <i>Dark matter and the free streaming scale</i> ; advisor: Prof. Dr. Ben Moore; date of defence: 26/08/2012.
09/2006 - 08/2008	M.Sc. in Physics, University of Fribourg, Switzerland.
09/2003 - 08/2006	B.Sc. in Geography and Physics, University of Fribourg, Switzerland.

EMPLOYMENT HISTORY

09/2019 - today	SNF Eccellenza Professor, Department of Astrophysics, University of Zurich.
09/2016 - 08/2019	SNF Ambizione Research Fellow, Institute for Particle Physics and Astrophyics, ETH Zurich (affiliated to the Cosmology group of Prof. Dr. Alexandre Refregier).
09/2014 - 08/2016	Postdoctoral Researcher, Institute for Computational Science, University of Zurich (Sinergia postdoc employed within the program: <i>Euclid - high-precision cosmology in the dark sector</i>).

09/2012 - 08/2014	Postdoctoral Researcher (CosmoComp fellow with Prof. Peter Thomas; Early Resear- cher Mobility fellow SNF), Astronomy Centre, University of Sussex, United Kingdom.
RESEARCH	
Interests:	Cosmology, Dark Matter, Structure Formation, Gravitational Lensing, Numerical Si- mulations, Astro-Particle Physics.
Publications:	62 papers in peer-reviewed journals, total citation number of 4745, h-index of 33 (as of 01/04/2024, Google Scholar).
INTERNATIONAL LEADERSHIP ROLES	
Since 2022	Co-leader of the Cosmological Simulation Science Working Group (CS-SWG, \sim 80 members) of the <i>Euclid</i> Consortium.
Since 2023	Board member and Swiss representative of the Epoch of Reionisation (EoR) working group (\sim 140 members) of the Square Kilometre Array Observatory (SKAO).
Approved Research Grants	

Eccellenza Grant, Swiss National Science Foundation. Title: *Gravitational Probes of Dark Matter* (1.85M CHF)

Ambizione Grant, Swiss National Science Foundation. Title: *Exploring the Dark Matter Sector with Astronomical Surveys* (475k CHF).

CSCS Computing Project s720. Title: *Emulating the Euclid Universe: Predictions for Weak Lensing and Galaxy Clustering* (Principal Investigator; 10M CPU Hours)

CSCS Computing Project s592. Title: *Simulating the Euclid Universe and Correcting for Baryons* (Principle Investigator; 12M CPU Hours).

Early Researcher Mobility Grant, Swiss National Science Foundation. Title: *Dark Matters: From Particle Cosmology to Astrophysics* (100k CHF).

SUPERVISION _

Supervision of Ph.D. candidates Jozef Bucko (2020-2024) and Thimotée Schaeffer (since October 2019), University of Zurich.

Supervision of postdoctoral researchers Dr. Sambit Giri (2019-2022) and Dr. Giovanni Aricò (since 2021).

Supervision of various Bachelor and Master students at ETH Zurich (Master thesis: N. Stoira, A. Weiss, T. Schaeffer) and the University of Zurich (Master thesis: M. Gitton, F. Vecchi, M. Kovac, F. Hervas Peters, J. Hubert, Z. Cai, N. Chrishon, J. Frey).

TEACHING ____

Introduction to Astronomy (5 ECTS, Spring 2024, 2023, 2022, 2021).

Individual Seminar Work in Computational Science (5 ECTS, Fall 2023, 2022, 2021).

Block-course as an invited guest lecturer at the Scola Normale Superiore in Pisa (2022).

Organiser of the Academia Industry Modelling Week (Fall 2020).

Several guest lectures for the courses *The Universe* (Spring 2020, UZH), *Theoretical Astrophysics* (Fall 2019, UZH), and *Astrophysics II* (Fall 2018, ETHZ).

Block-Course on Sterile Neutrinos (together with Dr. A . Merle, November 2017, Institute for Basic Science, Daejeon, South Korea).

Block-Course on Analytical Aspects of Nonlinear Structure Formation (Spring 2014, University of Sussex, UK).

REVIEWING ACTIVITIES _____

External reviewer for the Dutch Research Council (Veni Grants)

External reviewer for the Fund for Scientific Research (FNRS) of Belgium.

Regular referee for Physical Review D (PRD), Astrophysical Journal (ApJ), Monthly Notices of the Royal Service Astronomical Society (MNRAS), Journal of Cosmology and Astroparticle Physics (JCAP), Open Journal of Astrophysics (OJA).

SELECTION OF INVITED TALKS

2023	Physics Seminar at the Technische Universität München (TUM), Germany. Epoch of Reionisation Workshop, Sexten, Italy.
2022	Astrophysics Seminar, Astronomy Centre, University of Sussex, UK. Cosmology and particle physics seminar, University of Geneva, Switzerland. Conference on Weak Gravitational Lensing, Cambridge, UK.
2021	Colloquium of the Institute for Cosmology and Gravitation, Portsmouth, UK. CMB-S4 Summer Collaboration Meeting (invited external speaker). SKA Science Conference (virtual conference).

2020	Seminar at the Max Planck Institute for Astrophysics, Munich, Germany. Semiar at CEA-Saclay, Paris, France.
2019	Next Frontiers in the Search for Dark Matter, Conference, Firenze, Italy. Virtual Seminar at the German Centre for Cosmological Lensing. Fritz Zwicky der Wissenschaftler, Glarus, Switzerland (outreach talk at the Kantons- schule Glarus).

REFERENCES _____

Prof. Dr. Ben Moore (PhD supervisor)

Department of Astrophsyics, University of Zurich Email: moore@physik.uzh.ch

Prof. Dr. Romain Teyssier (previous employer) Department of Astrophysical Sciences, Princeton University Email: teyssier@princeton.edu

Prof. Dr. Alexandre Refregier (previous employer) Institute for Particle Physics and Astrophysics, ETH Zurich Email: alexandre.refregier@phys.ethz.ch

Prof. Dr. Peter Thomas (previous employer)

Department of Physics and Astronomy, University of Sussex Email: p.a.thomas@sussex.ac.uk

Zurich, 14/04/2024