

Roxana-Adela Chira

CONTACT INFORMATION

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EDUCATION

[Ph. D.](#), ESO Studentship since 2014

Topic: *Dust Radiative Transfer in star-forming Cores and Filaments*

Supervisors: Prof. Dr. Thomas Henning (MPIA), Dr. Ralf Siebenmorgen (ESO)

Max-Planck-Institut für Astronomie, Heidelberg

European Southern Observatory, Garching bei München

Grade: *to be announced*

[Master of Physics](#), 2011-2013

Heidelberg University

Specialization: Astronomy

- Physics Courses (amongst others):

Observational Astronomy, Stellar Astronomy, Radiative Transport

Anticipated graduation: Summer 2013

Grade: *1.6*

[Master's thesis](#)

Topic: *What is the most reliable tracer in dense clusters?*

Supervisors: Prof. Dr. Ralf S. Klessen, Dr. Rowan Smith

Institut für Theoretische Astrophysik, Heidelberg

Grade: *1.6*

[Bachelor of Science in Physics](#), 2008-2011

Heidelberg University

Specialization: Astronomy

- Physics Courses (amongst others):

Introduction to Astronomy, General Relativity, Theoretical Astrophysics

- Maths Courses:

Analysis I,II and Linear Algebra I,II

Grade: *1.9*

[Bachelor's thesis](#)

Topic: *Characterization of Infrared Dark Clouds*

Supervisor: Priv.-Doz. Dr. Henrik Beuther

Max-Planck Institut für Astronomie, Heidelberg

Grade: *1.0* (highest mark achievable)

[Abitur \(general qualification for university entrance\)](#), 2008

Grade: *1.5*

Gymnasium am Neandertal, Erkrath, 2000-2008

TEACHING

[Exercise Classes for Bachelor Students](#)

Preparation Course for Mathematical Methods in Physics,
Theoretical Physics I

PUBLICATION

[Characterization of Infrared Dark Clouds](#)

[NH₃ Observations of an Absorption-contrast Selected IRDC Sample](#)

Chira, R.-A., Beuther, H., Linz, H., Schuller, F., Walmsley, C. M., Menten,
K. M. & Bronfman, L., 2013, *Astron. Astrophys.*, 552, A40

ORGANISATIONAL SKILLS	<p>2013: Member of SOC & LOC Team of the 17th Annual German Conference of Women in Physics (DPT), Heidelberg</p>
CONFERENCE TALKS	<p>Nov 2013: "What is the most reliable tracer of core collapse in dense clusters?", Heidelberg</p>
INTERNSHIPS	<p>Internship at the European Space Operations Centre (ESOC) August 2008 European Space operations Centre (ESOC) Human Resources Division Supervisor: Mr. Gottlob Gienger</p> <ul style="list-style-type: none"> ◦ Setting up an electronic archive of conference and working papers in the ESOC document management system ◦ Links with ESOC knowledge management system <p>Internship at the European Astronaut Centre (EAC) January 2006 European Astronaut Centre (EAC) Directorate of Human Spaceflight, Microgravity and Exploration Programmes Supervisor: Mrs. Elena Khanina Project: <i>student traineeship</i></p> <ul style="list-style-type: none"> ◦ Modification of an inventory database for astronaut training ◦ Updating the EAC Visitors Handbook
OTHER ACTIVITIES	<p>Member of the Equal Opportunity Commission of the Department of Physics and Astronomy since 2012</p> <p>Mentor at the Mentoring project for beginning physics students 2011-2013 The Equal Opportunities Commission of the Physics Department of the University of Heidelberg started this project in 2011 for helping freshmen in their first months of their studies. My task as mentor was to care for my group.</p> <p>Mentor at the After School Care 2006-2008 Within the frame of the after school care I supervised two courses and taught the children how to use computer applications and the Internet for school.</p> <p>Participant of the "SchülerInnen an der Universität" (Pupils at the University) Project at the University of Düsseldorf 2006-2007</p> <p>Participant of the International Olympiad in Chemistry 2006-2008</p>

SKILLS

Languages:

- *German*: native speaker
- *English*: good working knowledge, three-week language holiday at Brighton, Great Britain in 2005
- *Spanish*: basic knowledge (with B1 certificate)
- *Latin*: school knowledge, qualification in 2006
- *Greek*: school knowledge, qualification in 2008

Programming: C++, IDL, Fortran 90

Scientific Programmes: GILDAS CLASS & GREG, RADMC-3D, ATHENA

Operating Systems: Unix, Linux, Windows

REFERENCES

[Prof. Dr. Thomas Henning](#)

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[Dr. Ralf Siebenmorgen](#)

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[Prof. Dr. Ralf Klessen](#)

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