

# Curriculum Vitae: Jouni Kainulainen

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## PERSONAL DETAILS

Jouni Tapani Kainulainen. Date of birth 8.10.1979. Nationality Finnish.

## EDUCATION

- 25.9.2009**      **PhD in astronomy**, University of Helsinki, observatory. PhD Thesis “*Studies of the star-forming structures in the dense interstellar medium: a view by dust extinction*” (Eximia cum laude approbatur).
- 24.9.2004      Master of Science, University of Helsinki, observatory. Major subject astronomy (grade 5/5). Thesis work “*The ratio of gas and dust in star forming regions - The Chamaeleon cloud complex*” (Eximia cum laude approbatur).
- 31.5.1998      Matriculation, High school of Kauhava, Finland.

## RELEVANT TRAINING

- 2018-2020      **Pedagogical studies in higher education**, 13 credit points, Chalmers Univ. of Technology.
- 2019            **Leadership development training**, 85 hours, Sharing Insight (Gothenburg).

## PROFESSIONAL HISTORY

- 2017/09-**      **ASSISTANT PROFESSOR**  
**Chalmers University of Technology**, Göteborg, Sweden
- 2016/02-2017/08      **INDEPENDENT RESEARCH GROUP LEADER**  
**Max-Planck-Institute for Astronomy**, Heidelberg, Germany  
Funded by the Starting Grant scheme of the European Research Council (ERC)
- 2012/03-2016/01      **POST-DOCTORAL RESEARCHER**  
Max-Planck-Institute for Astronomy, Heidelberg, Germany  
Funded by independent grants from the Deutsche Forschungsgemeinschaft (DFG)
- 2009/06-2012/02      **POST-DOCTORAL FELLOW**  
Max-Planck-Institute for Astronomy, Heidelberg, Germany  
Funded by independent grants from the Deutsche Forschungsgemeinschaft (DFG)
- 2009/01-2009/05      **PHD STUDENT**  
**University of Helsinki**, Observatory, Helsinki, Finland

2007/11-2008/12	<b>CIVILIAN SERVICEMAN</b> Aalto University/Metsähovi Radio Observatory, Finland
2005/10-2007/09	<b>VISITING PHD STUDENT</b> <b>European Southern Observatory</b> , Garching, Germany
2003/11-2005/09	<b>PHD STUDENT</b> University of Helsinki, Observatory, Helsinki, Finland

## MERITS, AWARDS, AND TEACHING

### Funding and awards (all awarded individually to J. Kainulainen):

<b>2017</b>	<b>Swedish research council project grant (Vetenskapsrådet; ~240 kEUR, ~2.2 FTEs).</b>
<b>2017</b>	<b>Chalmers University of Technology Forskarassistent funding (used to employ a PhD student), ~4 MSEK, ~4 PhD FTEs.</b>
<b>2016</b>	Deutsche Forschungsgemeinschaft funding for inviting a visitor (Prof. Stutz).
<b>2015</b>	<b>ERC Starting Grant; a 5-year funding to establish an independent research group (~1.3 MEUR, ~14 FTEs).</b>
<b>2015</b>	Stromlo Distinguished Visitor grant for collaboration with Australian National University.
<b>2014</b>	<b>Deutsche Forschungsgemeinschaft/ISM-Schwerpunktprogram funding for a 3-year postdoc position (~220 kEUR, 3 FTEs).</b>
<b>2014</b>	Interviewee for the Emmy Noether/DFG group leader grant (~1 MEUR; not awarded).
<b>2012</b>	Finnish Academy of Science and Letters/Väisälä Foundation, post-doc grant for a collaboration with Univ. of Vienna, Austria.
<b>2012</b>	Deutsche Forschungsgemeinschaft funding for organizing an international workshop.
<b>2011</b>	Finnish Academy of Science and Letters/Väisälä Foundation, post-doc grant for a collaboration with Univ. of Florida, USA.
<b>2011</b>	<b>Deutsche Forschungsgemeinschaft/ISM-Schwerpunktprogram funding for a 3-year postdoc position (~200 kEUR, 3 FTEs).</b>
<b>2010</b>	<b>Ernst Patzer Award</b> for best refereed publications by young scientists at MPIA and ZAH Heidelberg.
<b>2008</b>	Finnish Academy of Science and Letters/Väisälä Foundation, post-doc grant for a collaboration with Univ. of Vienna, Austria.
<b>2008</b>	Magnus Ehrnrooth Foundation, travel grant for participating a scientific conference in Sydney, Australia.
<b>2007</b>	Magnus Ehrnrooth Foundation, travel grant for participating a scientific conference in Heidelberg, Germany.

### List of candidates for graduate degrees:

<b>on-going</b>	<b>Andri Spilker</b>	PhD	Chalmers	Main supervisor
<b>on-going</b>	<b>Chi Yan Law</b>	PhD	Chalmers	Secondary supervisor
<b>2020</b>	<b>Manuel Riener</b>	PhD	MPIA/U. Heidelberg	<i>de facto</i> * main supervisor
<b>2017</b>	<b>Jorge Abreu-Vicente</b>	PhD	MPIA/U. Heidelberg	<i>de facto</i> * main supervisor
<b>2014</b>	<b>Michael Mattern</b>	MSc.	MPIA/U. Heidelberg	<i>de facto</i> * main supervisor
<b>2011</b>	<b>Markus Schmalzl</b>	PhD	MPIA/U. Heidelberg	Hands-on advisor

(\*) At MPIA, formal main supervision is only allowed for those with the title of professor. This standardly leads to setups in which the supervision is, to all effect, carried out by a *de facto* main supervisor, while for administrative purposes a professor is named as the the formal main supervisor.

#### List of mentored/supervised postdocs:

2019-	Sara Rezaei Kh.	Chalmers/MPIA
2018-	Jan Orkisz	Chalmers
2017-	Sandra Trevino Morales	Chalmers
2016-2018	Miaomiao Zhang	MPIA

#### List of undergraduate and graduate courses:

2019-	Designer and organiser of the PhD level course “Data-driven problems in space-related sciences”, Chalmers Univ. of Technology. To be lectured in Fall 2020.
2018	Co-lecturer of the Master course “Interstellar medium and star formation”, Chalmers Univ. of Technology.
2016-2017	Co-lecturer of the Master seminar course “Star formation”, Univ. of Heidelberg.
2015-2016	Co-lecturer of the Master seminar course “Star formation”, Univ. of Heidelberg.
2009	Course Assistant of the course “Linnunradan rakenne ja tähtienvälinen aine” (Structure of the Milky Way and interstellar medium), undergraduate level, astronomy, Univ. of Helsinki.
2005	Main lecturer of the course “Tähtien rakenne ja kehitys” (Structure and evolution of stars), undergraduate level, astronomy, Univ. of Helsinki.

#### SCIENTIFIC PUBLICATIONS

67 publications in total in peer-reviewed main journals of the field.

16 first-author publications. 16 second- or third-author publications.

~2 200 citations in total.

~850 citations to first-authored papers.

h-index: 28.

Full list of publications is provided on request.

#### ACTIVITY IN THE SCIENTIFIC COMMUNITY

##### Committees and positions of trust:

2019-	Representative of Sweden at the ESO User Committee.
2019	The PhD committee member of Jan Orkisz (ENS Paris/IRAM Grenoble).
2019	Reviewer of grant applications for a national funding agency in one funding call. Details confidential.
2017-2018	ALMA time allocation committee member during Cycles 5 and 6.
2017-	Onsala Space Observatory time allocation committee member.
2014-2016	Representative of the MPIA postdoctoral researchers at MPIA Heidelberg.
2011-	Referee of about 20 papers for <i>The Astrophysical Journal</i> , <i>Astronomy &amp; Astrophysics</i> , and <i>Monthly Notices of the Royal Astronomical Society</i> . Details confidential.

**List of lectures (past 5 years only):**

- 2019/10** Conference talk. Astronomdagarna, Stockholm, Sweden.
- 2019/09** Invited conference talk. Through dark lanes to new stars, Hersonissos, Crete, Greece.
- 2019/06** Invited conference review talk. Linking the Milky Way and Nearby Galaxies, Helsinki, Finland.
- 2019/06** Invited conference talk. From Stars to Planets II, Gothenburg, Sweden.
- 2018/07** Conference talk. Laws of Star Formation, Cambridge, UK.
- 2018/06** Invited conference talk. National meeting of Finnish Astronomers, Kuusamo, Finland.
- 2018/05** Conference talk. Early Phase of Star Formation, Castle Ringberg, Germany.
- 2018/03** Colloquium talk. Chalmers University of Technology, Gothenburg, Sweden.
- 2018/02** Invited seminar talk. University of Stockholm, Sweden.
- 2017/07** Conference talk. Galactic Star Formation with Surveys, Heidelberg, Germany.
- 2017/03** Invited special talk. ETH Zurich, Switzerland.
- 2017/02** Conference talk. The Physics of the ISM, Cologne, Germany.
- 2016/12** Invited colloquium. Mt. Stromlo Observatory/ANU, Canberra, Australia.
- 2016/11** Invited special talk. Chalmers University of Technology, Gothenburg, Sweden.
- 2016/11** Invited conference review talk. Heidelberg-Harvard Star Formation meeting, Heidelberg, Germany.

**Competitive observing time allocations:**

PI of three accepted ALMA observing time projects on Cycles 2, 4, and 6 (2013, 2016, 2018); a Co-I of several accepted ALMA projects. P.I. of numerous successful observing time projects on APEX, IRAM 30-m, VLT, NOT, and Calar Alto 3.5m telescopes. Participation in numerous observing time proposals including both ground-based and space-based observatories, e.g., VLT, VISTA, and APEX, Herschel Space Observatory, HST, and Chandra.