

## KARL JOAKIM ROSDAHL - CURRICULUM VITAE

---

After several years of professional experience as a software engineer in Reykjavik, I switched careers and started studying astrophysics, with a focus on theory and simulations. During my studies and subsequent postdocs, and now in my first year as a CNRS researcher (CR), I have mainly worked on the theme of galaxy evolution, galaxy growth through gas accretion, the role of stellar feedback, and reionization. I have published 28 articles in refereed journals (7 as first author), with a total of 717 citations (h-index 16).

CONTACT INFORMATION	CRAL 9 avenue Charles André F-69230 Saint Genis Laval France	<i>Phone:</i> +33 (0) 478 868 383 <i>E-mail:</i> JokiRosdahl@gmail.com <i>www:</i> jokirosdahl.wordpress.com orcid.org/0000-0002-7534-8314
DATE OF BIRTH	January 15, 1974, Reykjavik, Iceland	
CITIZENSHIP	Icelandic	
EDUCATION	<b>PhD in Astrophysics</b> , Claude Bernard University, Lyon, June 2012 <b>MSc in Astrophysics</b> , University of Copenhagen, February 2009 <b>BSc in Astrophysics</b> , University of Copenhagen, June 2006 <b>BSc in Computer Science</b> , University of Iceland, Reykjavik, June 1998.	
RESEARCH EXPERIENCE	<b>Centre de recherche astrophysique de Lyon, France</b> <i>CNRS researcher</i> <i>Postdoctoral researcher</i>	<b>2018-</b> <b>2016-2018</b>
	<b>Postdoctoral Researcher at Sterrewacht, Leiden Observatory, the Netherlands</b>	<b>2012-2016</b>
EARLIER PROFESSIONAL EXPERIENCE	<b>Head Software Developer, DOC software, Reykjavik Iceland</b> <b>Software Developer, Strengur software/Infostream, Reykjavik, Iceland</b>	<b>1999 - 2003</b> <b>1998 - 1999</b>
GRANTS AND FELLOWSHIPS	<b>PRACE (Partnership for advanced computing in Europe)</b> <b>2018:</b> DECI-17 grant for access to the Tier-0 supercomputing infrastructure, with 54M core-hours. <b>2016:</b> DECI-14 grant for access to the Tier-0 supercomputing infrastructure, with 13.7M core-hours. <b>2014:</b> DECI-13 grant for access to the Tier-1 supercomputing infrastructure, with 8M core-hours. <b>2014:</b> DECI-12 grant for access to the Tier-1 supercomputing infrastructure, with 4.4M core-hours.	
MAJOR COLLABORATIONS	<b>Among main contributors to the RAMSES simulations code</b> <b>PI of the SPHINX collaboration</b> Reionisation simulations collaboration with CRAL and the Universities of Cambridge, Oxford, Seoul, Strasbourg, and Zurich ( <a href="https://sphinx.univ-lyon1.fr">https://sphinx.univ-lyon1.fr</a> )	<b>2009-</b> <b>2016-</b>
MISCELLANEOUS	<b>Referee for MNRAS and ApJ</b> <b>External ERC consolidator grant reviewer</b> <b>Main organiser of 2018 RAMSES user meeting in Lyon</b> <a href="https://rum2018.sciencesconf.org">https://rum2018.sciencesconf.org</a>	<b>2014-</b> <b>2016</b> <b>September 2018</b>
SELECTED PUBLICATIONS	<ol style="list-style-type: none"><li>Rosdahl, J, Katz, H, Blaizot, J, Kimm, T, Michel-Dansac, L, Garel, T, Haehnelt, M, Ocvirk, P &amp; Teyssier, R. The SPHINX Cosmological Simulations of the First Billion Years: the Impact of Binary Stars on Reionization. <i>MNRAS</i> <b>479</b>, 994–1016. ISSN: 0035-8711 (Jan. 2018).</li><li>Rosdahl, J, Schaye, J, Dubois, Y, Kimm, T &amp; Teyssier, R. Snap, crackle, pop: sub-grid supernova feedback in AMR simulations of disc galaxies. <i>MNRAS</i> <b>466</b>, 11–33. ISSN: 0035-8711 (Apr. 2017).</li><li>Rosdahl, J, Schaye, J, Teyssier, R &amp; Agertz, O. Galaxies that shine: radiation-hydrodynamical simulations of disc galaxies. <i>MNRAS</i> <b>451</b>, 4553–4577 (2015).</li><li>Rosdahl, J, Blaizot, J, Aubert, D, Stranex, T &amp; Teyssier, R. Ramses-rt: Radiation hydrodynamics in the cosmological context. <i>MNRAS</i> <b>436</b>, 2188–2231 (Dec. 2013).</li><li>Rosdahl, J &amp; Blaizot, J. Extended Lyman-<math>\alpha</math> emission from cold accretion streams. <i>MNRAS</i> <b>423</b>, 344–366 (June 2012).</li></ol>	