

Anna Niemiec

	Research Experience
2018–present	Postdoctoral researcher, University of Michigan, USA. o Advisor: Keren Sharon
2013–2014	Research Internship, Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro - Brasil. • Thesis: Strong lensing in the CS82 survey • Advisor: Martin Makler
	Education
2014–2017	PhD in "Astrophysics and Cosmology", awarded on 28/09/2017, Laboratoire d'Astrophysique de Marseille/Aix Marseille Université, France.
2012–2013	Masters (2^{nd} y.), <i>Université Paris VI (UPMC)</i> , France. Noyaux, Particules, Astroparticules et Cosmologie (NPAC), cosmology specialty
2011-2012	Masters (1^{st} y.), Ecole Normale Superieure de Cachan, France. Theoretical and experimental physics
2010-2011	Bachelor , <i>Ecole Normale Superieure de Cachan</i> , France. Science and Technology, physics specialty
	Teaching & Supervision
2019	Supervision of an undergraduate research project
2014-2017	As a teaching assistant: practicals in Wave optics, Electronics, Geometric optics and Mathematics $$
	Service to the community
	Referee for MNRAS
	Institutional responsibilities
2019 2015–2017	Organizer of the "Galaxy cluster seminars" at University of Michigan Organizer of the "Tea Time Chat" meetings at LAM
	Organisation of scientific meetings
Feb 2019	BUFFALO meeting at University of Nevada Las Vegas (UNLV) - SOC (https://conference.ipac.caltech.edu/buffalo2019unlv/)
Oct 2018	BUFFALO meeting at the Laboratoire d'Astrophysique de Marseille
Jul 2017	Galaxy Clusters Across Cosmic Time Conference (Aix-en-Provence - France)

Collaboration memberships

- 2019-present Member of the ISSI International Team "Cluster Physics from space to reveal Dark Matter: current and future challenges"
- 2018-present Working group co-Lead in the Beyond Ultra-deep Frontier Fields And Legacy Observations (BUFFALO) collaboration

Outreach and Communication

- 2019 Member of the organization team of "Astronomy on Tap" events in Ann Arbor
- 11/2017 Communication in the "Lettre d'AMU" describing thesis work (https://www.univ-amu.fr/system/files/2019-02/DIRCOM-lettre_amu_n55_novembre2017_0.pdf p.26)
- 05/2017 Talk for general public in the conference series "13 Minutes Jeunes Chercheurs" (https://vimeo.com/243808833)
- 2014–2016 Facilitator at the "Fete de la science" at the LAM booth
- 2014–2015 Organizer of a series of astronomy workshops for inmates at Marseille's prison

Skills

Programming Python, C, Bash

Software Lenstool, DS9, Topcat, SExtractor, git

Languages French (native), Polish (native), English (advanced), Spanish (basic knowledge)

Oral Presentations

Invited talk

	invited talk.	
2019	St Mary's University (Halifax - Canada)	Seminar
	Contributed talks.	
2019	Matera Oscura (Matera - Italy)	Conference
2019	Great Lakes Cosmology Workshop (Rochester, NY - USA)	Workshop
2019	Société Francaise d'Astronomy (SF2A) days (Nice - France)	Workshop
2019	Lenstool days (Lyon - France)	Workshop
2019	Durham University (UK)	Talk
2017	Large Scale Structures Workshop (Granada - Spain)	Workshop

- 2017 Galaxy Clusters Across Cosmic Time (Aix-en-Provence France) Conference
- 2017 Galaxy Clusters conference (Santander Spain) Conference
- 2016 eBOSS-DESI France meeting (Paris France) Collaboration meeting
- 2016 GravLens (Leiden, the Netherlands) Conference
- 2016 Astronomical Data Analysis Summer School (Chania Grece) Workshop
- 2016 eBOSS meeting (EPFL Switzerland) Collaboration meeting
- 2015 MultiDarkLens meeting (MArseille France) Collaboration meeting
- 2015 SDSS meeting (Madrid Spain) Collaboration meeting

Publications

Published.

- **A. Niemiec**, E. Jullo, C. Giocoli, M. Limousin and M. Jauzac. *Dark matter stripping in galaxy clusters: a look at the Stellar to Halo Mass relation in the Illustris simulation.* Monthly Notices of the Royal Astronomical Society, Volume 487, Issue 1, p.653-666. July 2019.
- **A. Niemiec**, E. Jullo, A. Montero-Dorta, F. Prada, S. Rodriguez-Torres, E. Perez and A. Klypin. *Probing galaxy assembly bias with LRG weak lensing observations.* MNRAS: Letters, Volume 477, Issue 1, p.L1-L5, June 2018.
- A. Montero-Dorta, E. Pérez, F. Prada, S. Rodríguez-Torres, G. Favole, A. Klypin, R. Cid Fernandes, R. M. González Delgado, A. Domínguez, A. S. Bolton, R. García-Benito, E. Jullo, **A. Niemiec**. *The Dependence of Galaxy Clustering on Stellar-mass Assembly History for LRGs*. The Astrophysical Journal Letters, Volume 848, Issue 1, article id. L2, October 2017.
- **A. Niemiec**, E. Jullo, M. Limousin, C. Giocoli, T. Erben, H. Hildebrant, J.-P. Kneib, A. Leauthaud, M. Makler, B. Moraes, M. E. S. Pereira, H. Shan, E. Rozo, E. Rykoff and L. Van Waerbeke. *Stellar-to-halo mass relation of cluster galaxies*. MNRAS, Volume 471, p.1153-1166, October 2017.
- G. Favole, J. Comparat, F. Prada, G. Yepes, E. Jullo, **A. Niemiec**, J.-P. Kneib, S. A. Rodriguez-Torres, A. Klypin, R. A. Skibba, C. K. McBride, D. J Eisenstein, D. J. Schlegel, S. E. Nuza, C. H. Chuang, T. Delubac, C. Yeche and D. P. Schneider. Clustering properties of g-selected galaxies at $z\sim0.8$. MNRAS, Volume 461, Issue 4, p.3421-3431, October 2016.
- F. Abe, C. Airey, E. Barnard, J. Baudrey, C. Botzler, D. Douchin, M. Free-man, P. Larsen, **A. Niemiec**, Y. Perrott, L. Philpott, N. Rattenbury and P. Yock. *Extending the Planetary Mass Function to Earth Mass by Microlensing at Moderately High Magnification*. MNRAS, Volume 431, p.2975-2985, June 2013.

Accepted for publication.

A. Niemiec, M. Jauzac, E. Jullo, M. Limousin, K. Sharon, J.-P. Kneib, P. Natarajan, J. Richard. *hybrid-Lenstool: A self-consistent algorithm to model galaxy clusters with strong- and weak-lensing simultaneously*

Under review.

E. J. Gonzalez, M. Chalela, M. Jauzac, D. Eckert, M. Schaller, D. Harvey, **A. Niemiec**, A. M. Koekemoer, D. Barnes, D. Clowe, T. Connor, J. M. Diego, J. D. Remolina Gonzalez, C. L. Steinhardt. *Setting the scene for BUFFALO: A study of the matter distribution in the HFF galaxy cluster MACS J0416.1-2403 and its parallel field*

In prep

A. Niemiec, M. Jauzac, D. Lagattuta, G. Mahler, K. Sharon, D. Harvey. *Beyond the Ultra-deep Frontier Fields And Legacy Observations: a high-resolution strong+weak-lensing view of Abell 370*