

Anna Niemiec  
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**Address**  
809 E. Kingsley Street  
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USA

# Anna Niemiec

**Research Interests** Galaxy clusters, galaxy evolution, weak gravitational lensing

## Research Experience

**05/2018 - present, Postdoctoral research fellow at University of Michigan, USA**

**09/2014 - 09/2017, PhD at LAM (Laboratoire d'Astrophysique de Marseille), Marseille, France**

- **Thesis:** Influence of the environment on galaxy evolution
- **Advisors:** Eric Jullo and Marceau Limousin

**2013 - 2014, Internship at CBPF (Centro Brasileiro de Pesquisas Fisicas), Rio de Janeiro, Brasil**

- **Thesis:** Strong lensing in the CS82 survey
- **Advisor:** Martin Makler

**May - July 2013, Master thesis at LPNHE (Laboratoire de Physique Nucleaire et de Hautes Energies), Paris, France**

- **Thesis:** Light curve of the type Ia Supernovae and host galaxies
- **Advisor:** Pierre Astier

**April - August 2012, Undergraduate Internship at the University of Auckland, New Zealand**

- **Thesis:** Gravitational microlensing for the detection of exoplanets
- **Advisor:** Philip Yock

**May - June 2011, Undergraduate internship at the LPNHE (Laboratoire de Physique Nucleaire et de Hautes Energies), Paris, France**

- **Thesis:** Study of the light curves in narrow spectral band of type Ia Supernovae
- **Advisor:** Pierre Antilogus

## Education

**2012 - 2013, University Paris IV (UPMC)**

Masters (2<sup>nd</sup> y.) "Noyaux, Particules, Astroparticules et Cosmologie" (NPAC), cosmology specialty

**2011 - 2012, Ecole Normale Supérieure de Cachan**

Masters (1<sup>st</sup> y.) of theoretical and experimental physics

**2010 - 2011, Ecole Normale Supérieure de Cachan**

Bachelor of "Science and Technology", physics specialty

## Oral presentations

**2019, St Mary's University, Halifax, Canada**

Influence of the cluster environment on the galaxy-halo connection, *seminar*

**2017, Galaxy Clusters Across Cosmic Time international conference (Aix-en-Provence, France)**

Stellar-to-halo mass relation of cluster galaxies, *talk*

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**2017, Galaxy Clusters international conference (Santander, Spain)**

Stellar-to-halo mass relation of cluster galaxies, *talk*

**2016, eBOSS-DESI France meeting (Paris, France)**

Stellar to halo mass relation of redMaPPer satellites, *talk*

**2016, GravLens international conference (Leiden, the Netherlands)**

Dark matter haloes of satellite galaxies, *talk*

**2016, Astronomical Data Analysis Summer School (Chania, Greece)**

Halo mass measurement of satellite galaxies in CS82 and CFHTLens, *talk*

**2016, eBOSS collaboration meeting (EPFL, Lausanne, Switzerland)**

Lensing by satellite galaxies, *talk*

**2015, MultidarkLens meeting (LAM, Marseille, France)**

Lensing by substructures in BigMultidark simulations, *talk*

**2015, SDSS collaboration meeting (IFT, Madrid, Spain)**

Lensing measurements around ELG galaxies, *talk*

**Various contributions within LAM: Junior Seminar, Cafe Club**

## 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. arXiv: 1811.04996
- **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*. Monthly Notices of the Royal Astronomical Society: Letters, Volume 477, Issue 1, p.L1-L5, June 2018. arXiv: 1801.06551
- **A. Niemiec**, E. Jullo, M. Limousin, C. Giocoli, T. Erben, H. Hildebrandt, 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*. Monthly Notices of the Royal Astronomical Society, Volume 471, p.1153-1166, October 2017. arXiv: 1703.03348
- 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. Yèche and D. P. Schneider. *Clustering properties of g-selected galaxies at  $z \sim 0.8$* . Monthly Notices of the Royal Astronomical Society, Volume 461, Issue 4, p.3421-3431, October 2016. arXiv: 1507.04356
- F. Abe, C. Airey, E. Barnard, J. Baudrey, C. Botzler, D. Douchin, M. Freeman, 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*. Monthly Notices of the Royal Astronomical Society, Volume 431, p.2975-2985, June 2013. arXiv: 1303.4123

## Teaching Experience

As a teaching assistant:

- Wave optics
- Electronics
- Geometric optics

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## Service, Outreach and Organization

- Referee for MNRAS
- 2015 - 2017: Organizer of the "Tea Time Chat" meetings at LAM
- 05/2017: Conference for general public "13 Minutes Jeunes Chercheurs"
- 10/2016, 10/2015, 10/2014: Participation to 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

### Languages

- French: **mother tongue**
- English: **advanced**
- Polish: **mother tongue**
- Spanish: **basic knowledge**