

# Luca Ricci

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## Personal

Born December 17 1983, Ravenna, Italy. Italian Citizen.

## Education

- **Ph.D. Astronomy**, ESO (European Southern Observatory) and Ludwig-Maximilians Munich University (Advisor: Leonardo Testi), expected date: August 2011.
- **M.A. Astrophysics**, Milan University, Italy, summa cum laude (Advisors: Giuseppe Bertin, Massimo Robberto), 2008.
- **B.S. Physics**, Milan University, Italy, summa cum laude (Advisor: Giuseppe Bertin), 2006.

## Professional Experience

- **International Max Planck Research School (IMPRS)** Graduate Student, European Southern Observatory, 2008–present.
- **12th Synthesis Imaging Workshop**, Socorro NM, 2010.
- **European Radio Interferometric School**, Oxford UK, 2009.
- **Summer Intern** with Dr. Massimo Robberto, STScI, Baltimore MD, 2008.
- **Summer Intern** with Dr. Massimo Robberto, STScI, Baltimore MD, 2007.
- **Astrophysics National School: *Galaxy Dynamics and AGNs***, Bertinoro, Italy, 2006.

## Honors & Awards

- **Graduate Research Fellowship**, International Max Planck Research School, ESO Garching, 2008–present.
- Awarded more than 600 hours of observing time for astronomical facilities at optical-NIR and sub-mm/mm-wavelengths (13 accepted proposals, PI for 11 of them), 2008–present.
- **Summer Studentship**, STScI, Baltimore MD, 2008.
- **Summer Studentship**, STScI, Baltimore MD, 2007.
- **Undergraduate Fellowship**, Institute for the Rights to the University Studies, Milan University, 2003–2007.

## Accepted Proposals

13. *Investigating the relation between disk and stellar mass with APEX/LABOCA*, 29 APEX hours, PI.
12. *Disks@EVLA: Grain growth and sub-structure in protoplanetary disks*, 360 EVLA hours, PI C. Chandler.
11. *Massive protoplanetary disks in the outskirts of the Orion Nebula*, 24 CARMA hours, PI.
10. *Dust properties in the Taurus-Auriga protoplanetary disks*, 30 CARMA hours, PI.
9. *Investigating gravitational instability in a massive protoplanetary disk in Orion*, 2 VLT/X-Shooter hours, PI.
8. *Investigating the first stages of planet formation in the Orion Nebula*, 8 ATCA hours, PI.
7. *Dust grain growth in Chamaeleon I protoplanetary disks*, 6 ATCA hours, PI.
6. *Mapping the dust grain growth in the protoplanetary disk around RY Tau*, 15 VLA hours, PI.
5. *Dust properties in a massive disk in the Orion Nebula*, 6 EVLA hours, PI.
4. *Dust properties of Ophiuchus protoplanetary disks*, 22 VLA hours, PI.
3. *A 850  $\mu\text{m}$  survey of the outskirts of  $\rho$ -Oph Star Forming Region with APEX/LABOCA*, 29 APEX hours, PI.
2. *The protoplanetary disks in the rho-Oph star forming region*, 45 ATCA hours, PI.
1. *Dust properties in Classical T-Tauri disks*, 33 VLA hours, PI L. Testi.

## Research Interests

Star and Planet Formation, Dust Processing in Protoplanetary Disks, Origin and Evolution of Protoplanetary Disks.

## Skills

### Observing Experience

- **Australian Telescope Compact Array (ATCA)**
- **Expanded Very Large Array (VLA/EVLA)**
- **Combined Array for Research in Millimeter Astronomy (CARMA)**
- **Atacama Pathfinder EXperiment (APEX)**

### Programming/Software

- IDL, Fortran, C, CASA, MIRIAD.

## Public Outreach

- Writing of scientific articles for the Italian online newspaper “*Il Sussidiario.net*”, Jan 2010–present.
- *Born in beauty: proplyds in the Orion Nebula*, Hubble European Space Agency, Dec 2009.
- Collaboration with *Euresis* (“Association for the promotion and development of culture and scientific work”) for the preparation of the scientific exhibition “*Why so many lights? The Milky way on Science, History and Art*”, 2006.
- Presentation to the public of several *Euresis* scientific exhibitions throughout Northern Italy, 2005–2008.

## Publications

6. **L. Ricci**, R. K. Mann, L. Testi, J. P. Williams, A. Isella, M. Robberto, A. Natta, & K. J. Brooks, *The (sub-)millimeter SED of protoplanetary disks in the outskirts of the Orion Nebula Cluster*, submitted to *A&A Letters*.
5. **L. Ricci**, L. Testi, A. Natta, & K. J. Brooks, *Dust grain growth in rho-Ophiuchi protoplanetary disks*, *A&A* in press, 2010 (arXiv:1008.1144).
4. T. Birnstiel, **L. Ricci**, F. Trotta, C. P. Dullemond, A. Natta, L. Testi, C. Dominik, T. Henning, C. W. Ormel, & A. Zsom, *Testing the theory of grain growth and fragmentation by millimeter observations of protoplanetary disks*, *A&A Letters* 516, 14, 2010 (arXiv:1006.0940).
3. **L. Ricci**, L. Testi, A. Natta, R. Neri, S. Cabrit, & G. J. Herczeg, *Dust properties of protoplanetary disks in the Taurus-Auriga star forming region from millimeter wavelengths*, *A&A* 512, 15, 2010 (arXiv:0912.3356).
2. M. Robberto, **L. Ricci**, N. Da Rio, & D. R. Soderblom, *Evidence for a photoevaporated circumbinary disk in Orion*, *ApJ Letters* 687, 83, 2008 (arXiv:0809.3208).
1. **L. Ricci**, M. Robberto, & D. R. Soderblom, *The Hubble Space Telescope/Advanced Camera for Surveys Atlas of protoplanetary disks in the Great Orion Nebula*, *AJ* 136, 2136, 2008 (arXiv:0808.3336).

## Conference Contributions

8. **L. Ricci**, *Investigating the first stages of dust grain growth from millimeter observations of protoplanetary disks* (talk), Putting our Solar system in context: origin, dynamical and physical evolution of multiple planet systems, Obergurgl, Austria, 2010.
7. **L. Ricci**, *Probing the first stages of planet formation from (sub-)mm interferometry* (talk), The origin and fate of the Sun: evolution of Solar-mass stars observed with high angular resolution, Garching bei München, Germany, 2010.
6. F. Trotta, T. Birnstiel, **L. Ricci**, L. Testi, A. Natta, & C. P. Dullemond, *Constraining variations of dust properties in circumstellar disks with mm observations* (poster), The origin and fate of the Sun: evolution of Solar-mass stars observed with high angular resolution, Garching bei München, Germany, 2010.
5. **L. Ricci**, *Dust grain growth from (sub-)mm interferometry in the Taurus-Auriga and  $\rho$ -Oph protoplanetary disks* (talk), From circumstellar disks to planetary systems, Garching bei München, Germany, 2009.

4. **L. Ricci**, L. Testi, A. Natta, R. Neri, S. Cabrit, & G. J. Herczeg, *Grain growth in Taurus-Auriga protoplanetary disks from millimeter wavelengths* (poster), Planet formation and evolution: the Solar system and extrasolar planets, Tübingen, Germany, 2009.
3. M. Reggiani, M. Robberto, N. Da Rio, L. Hillenbrand, **L. Ricci**, & D. R. Soderblom, *A study of the age of the Orion Nebula Cluster* (poster), 258<sup>th</sup> International Astronomical Union Symposium, Baltimore MD, 2008.
2. **L. Ricci**, M. Robberto, N. Da Rio, & D. R. Soderblom, *The discovery of a photoevaporated circumbinary disk in the Orion Nebula* (poster), 5<sup>th</sup> Spitzer Science Conference, Pasadena CA, 2008.
1. **L. Ricci**, M. Robberto, D. R. Soderblom, & Kozhurina V. Platais, *The HST/ACS Photometric Catalog of the Orion Nebula Cluster* (poster), 211<sup>th</sup> American Astronomical Society Meeting, Austin TX, 2008.

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<http://www.eso.org/~lricci/cv.pdf>