

ROCIO AYLÉN KIMAN

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The Graduate Center, CUNY
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| Education | The Graduate Center, CUNY, USA | August 25 2016 – Expected Spring 2021 |
| | Ph.D. in Physics Master of Philosophy Physics (June 2, 2020) Thesis Advisors: Prof. Kelle Cruz & Prof. Jackie Faherty | |
| | Universidad de Buenos Aires, Argentina | March 1 2011 – March 31 2016 |
| | Licenciatura in Physics Thesis Title: “Higgs boson pair production at the LHC” Thesis Advisor: Prof. Daniel de Florian | |
| Appointments | Non-Teaching Adjunct Hunter College, CUNY | August 2020 – Present |
| | Graduate Research Assistant Research Foundation, CUNY | August 2017 – Present |
| | Graduate Assistant A Hunter College, CUNY | August 2019 – August 2020 |
| | Non-Teaching Adjunct Hunter College, CUNY | August 2017 – August 2019 |
| | Non-Teaching Adjunct Graduate Center, CUNY | August 2016 – August 2017 |
| | Teaching Assistant Universidad de Buenos Aires, Argentina Teaching assistant for Classical Mechanics classes. | March 2016 – August 2016 |
| Grants & Awards | PSC-CUNY Cycle 51 Trad B Research Award, (PI: K.Cruz) for \$6000 | April 16 2020 |
| | Sigma Xi Grants in Aid of Research, for \$4334 | June 01 2019 |
| | Doctoral Student Research Grant (Round 14) for \$875 | March 13 2019 |
| | Provosts Pre-Dissertation Research Fellowship for the Sciences, for \$5000 | March 08 2019 |
| | K2 Guest Observer Cycle 6 (PI: J. Faherty) for \$125,000 | June 25 2018 |
| | PSC-CUNY Cycle 49 Trad B Research Award (PI: K.Cruz) for \$6000.00 | April 13 2018 |
| | CUNY Science Scholarship | August 25 2016 |
| | AY 20162017: \$26,000 stipend and full tuition AY 20172018, AY 20182019, AY 20192020 and AY 20202021: full tuition CONICET Doctoral Fellowship, \$5270 stipend | April 01 – August 24 2016 |
| Publications | First author <i>Calibration of the Hα Age-Activity relation for M dwarfs</i> Kimán, R. ; Faherty, J.K.; Cruz, K.L.; Gagné, J.; Angus, R.; Schmidt, S. J.; Mann, A.W.; Bardalez Gagliuffi, D.C.; Rice, E.; Submitted to ApJ on August 14 2020. | |

Exploring the age dependent properties of M and L dwarfs using Gaia and SDSS.

Kiman, R., Schmidt, S.J., Angus, R., Cruz, K.L., Faherty, J.K. & Rice, E., The Astronomical Journal, 157, 6, 231 (2019) DOI: 10.3847/1538-3881/ab1753

Co-author

Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project.

Meisner, A. M.; Faherty, J.K.; Kirkpatrick, J. D.; Schneider, A.C.; Caselden, D.; Gagn, J.; Kuchner, M.J.; Burgasser, A.J.; Casewell, S.L.; Debes, J.H.; Artigau, .; Bardalez Gagliuffi, D.C.; Logsdon, S.E.; **Kiman, R.** et al., The Astrophysical Journal, Volume 899, Issue 2, id.123 (2020) DOI:10.3847/1538-4357/aba633

Discovery of a Nearby Young Brown Dwarf Disk

Schutte, M. C.; Lawson, K. D.; Wisniewski, J. P.; Kuchner, M. J.; Silverberg, S. M.; Faherty, J. K.; Bardalez Gagliuffi, D. C.; **Kiman, R.**; Gagn, J.; Meisner, A.; Schneider, A. C.; Bans, A. S.; Debes, J. H.; Kovacevic, N.; Bosch, M. K. D.; Durantini Luca, H. A.; Holden, J.; Hyogo, M., (2020) arXiv:2007.15735

Exploring the evolution of stellar rotation using Galactic kinematics

Angus, R.; Beane, A.; Price-Whelan, A. M.; Newton, E.; Curtis, J. L.; Berger, T.; van Saders, J.; **Kiman, R.**; Foreman-Mackey, D.; Lu, Y.; Anderson, L.; Faherty, J. K., The Astronomical Journal, Volume 160, Number 2 (2020) DOI: 10.3847/1538-3881/ab91b2

Toward Precise Stellar Ages: Combining Isochrone Fitting with Empirical Gyrochronology.

Angus, R., Morton, T. D., Foreman-Mackey, D., van Saders, J., Curtis, J., Kane, S. R., Bedell, M., **Kiman, R.**, Hogg, D. W.; Brewer, J. The Astronomical Journal, Volume 158, Issue 5, article id. 173, 12 pp. (2019). DOI: 10.3847/1538-3881/ab3c53

Non-refereed publications

wdwarfdate: A python package to estimate white dwarfs ages in a Bayesian framework.

Kiman, R.; Xu, S.; Faherty, J.K.; Angus, R.; Casewell, S.L.; Gagné, J.; Cruz, K.L.; in prep. Approximate submitting date: September 30 2020

Evaluating Rotation Periods of M dwarfs Popinchalk, M.; Faherty, J.; **Kiman, R.**; Angus, R.; Curtis, J.; Gagne, J.; Cruz, K.; Rice, E., in prep.

Invited Talks

Age-dating low mass stars using magnetic activity and kinematics. Seminar, January 10 2020, Gemini Observatory, Hilo, HI, USA.

Finding Age Relations for Low Mass Stars Using Magnetic Activity and Kinematics. Seminar, July 2, 2019, Leibniz-Institut für Astrophysik Potsdam (AIP), Potsdam, Germany.

Finding Age Relations for Low Mass Stars Using Magnetic Activity and Kinematics. Seminar, May 23, 2019, Princeton University, NJ, USA.

An Open Discussion on Software. Invited panelist, AAS 233, 6–10 January, 2019, Seattle, Washington, USA

Contributed Presentations

Age-Activity relation for M dwarfs using H α equivalent widths Kiman R., Faherty J., Cruz K., Xu S., Schmidt S., Angus R., Gagné J., Bardalez Gagliuffi D., Rice E., Poster presentation, AAS 235, 4-8 January, 2020, Honolulu, HI, USA.

TRAPPIST-1 in the context of M-dwarfs re-defined by Gaia DR2. Contributed talk, TRAPPIST-1 conference, June 11–14, 2019, Liège, Belgium.

Finding age relations for low mass stars using magnetic activity and kinematics. Contributed talk, Big Apple Magnetic Fields Conference, January 24–25, 2019, Center for Computational Astrophysics at the Flatiron Institute, NY, New York, USA.

Finding age relations for low mass stars using magnetic activity and kinematics. Kiman, R., Schmidt, S.J., Angus, R., Cruz, K.L., Faherty, J.K. & Rice, E., Poster presentation, AAS 233, 6–10 January, 2019, Seattle, Washington, USA.

Age Dating Low Mass Stars Using Galactic Kinematics. Kiman, R., Schmidt, S.J., Angus, R., Cruz, K.L., Faherty, J.K. & Rice, E., Poster presentation, Cool Stars, July 30 to August 3, 2018, Boston-Cambridge, USA.

Age Dating Low Mass Stars Using Galactic Kinematics. Contributed talk, Cool Stars, July 30 to August 3, 2018, Boston-Cambridge, USA.

Age Dating Low Mass Stars Using Galactic Kinematics. Contributed talk, Graduate Research Conference, May 10, 2018, College of Staten Island, NY, USA.

Age Dating Low Mass Stars Using Galactic Kinematics. Kiman, R., Cruz, K.L., Angus, R., Schmidt, S.J. & Faherty, J.K., Poster presentation, AAS 231, 8–12 January, 2018, Washington DC, USA.

Gaia-Cupid: Age-dating low mass stars using galactic kinematics. Kiman, R., Cruz, K.L., Angus, R., Schmidt, S.J. & Faherty, J.K., Poster presentation, BDExoCon II, 26–27 October 2017, Delaware, USA.

Gaia-Cupid: Age-dating low mass stars using galactic kinematics. Lightning Talk, SDSS-IV Collaboration Meeting, 24–26 July 2017, Santiago, Chile.

Photolysis of caged compounds with controlled temporal modulation. Kiman, R., Camino, P., Ponce Dawson, S., Lopez, L., Piegari, S., Poster Presentation, 99 RNF-AFA (National Meeting of the Physical Association Argentina) 22–25 September, 2014, Buenos Aires, Argentina.

Conferences Attended

AAS 235. 4–8 January, 2020, Honolulu, HI, USA.

BDExoCon III. 21–22 October, 2019, Newark, DE, USA.

TRAPPIST-1 conference. June 11–14, 2019, Liège, Belgium.

AAS 233. 6–10 January, 2019, Seattle, Washington, USA.

.Astronomy X. 24–27 September 2018, Baltimore MD, USA.

Cool Stars. July 30 to August 3, 2018, Boston-Cambridge, USA.

Gaia Sprint. 4–8 to June, 2018, Center for Computational Astrophysics at the Flatiron Institute, NY, New York, USA.

Python in Astronomy. April 30 to May 4, 2018, Center for Computational Astrophysics at the Flatiron Institute, NY, New York, USA.

Gaia DR2 Sprint. 25–27 April, 2018, Center for Computational Astrophysics at the Flatiron Institute, NY, New York, USA.

AAS 231. 8–12 January, 2018, Washington DC, USA.

BDExoCon II. 26–27 October 2017, Newark, DE, USA.

SDSS-IV Collaboration Meeting. 24–26 July 2017, Santiago, Chile.

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| Schools Attended | <i>Space Astrometry For Astrophysics.</i> 3–7 June 2019, L’Aquila, Italy | |
| | <i>IYAS on the scientific exploration of the Gaia data.</i> February 26 to March 2, 2018, Paris, France. | |
| | <i>La Serena School of Data Science.</i> 21-29 August, 2017, La Serena, Chile. | |
| Teaching Experience | ASTRO 10200 - Laboratory Explorations in Astronomy Hunter College, CUNY, New York, USA | January 27 – May 28 2020 |
| | ASTRO 10200 - Laboratory Explorations in Astronomy Hunter College, CUNY, New York, USA | August 26 – December 12 2019 |
| | Classical Mechanics University of Buenos Aires, Argentina | March 1 – June 30 2016 |
| | Private Tutor for High-School and Undergraduate Students High-school subjects: Mathematics, Physics, Chemistry and Informatic Undergraduate subjects: Calculus, Algebra, Physics and Chemistry | March 01 2009 – December 25 2015 |
| | Participation in the presentation in Spanish <i>Astronoma en Vivo: Historia del Universo</i> American Museum of Natural History, New York, USA. Open public. | September 24 2019 |
| Outreach Activities | Presentation at Adventures in Science Camps American Museum of Natural History, New York, USA. For children in Grades 1–5. | January 29 2019 |
| | Outreach Assistant Universidad de Buenos Aires, Argentina | 2014 – 2016 |
| | Presenter at the “Physics week” for high-school students, 2014-2015. | |
| | Presenter at the “Museum’s night”, 2014-2015. | |
| | Presenter at the Book Fair in Buenos Aires, May 2015. Monthly outreach talks for high-school students about the career in Physics. | |