

# ROCIO AYLÉN KIMAN

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The Graduate Center, CUNY  
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<b>Education</b>	The Graduate Center, CUNY, USA Ph.D. in Physics Thesis Advisors: Prof. Kelle Cruz & Dr. Jackie Faherty	2016 - Expected Spring 2021
	Universidad de Buenos Aires, Argentina Licenciatura in Physics Thesis Title: "Higgs boson pair production at the LHC" Thesis Advisor: Prof. Daniel de Florian	2011 - 2016
<b>Appointments</b>	Graduate Assistant A Hunter College, CUNY	August 2019 - Present
	Graduate Research Assistant Research Foundation, CUNY	August 2017 - Present
	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
<b>Grants &amp; Awards</b>	Sigma Xi Grants in Aid of Research for \$4334, 2019	
	Doctoral Student Research Grant (Round 14) for \$875, 2019.	
	Provosts Pre-Dissertation Research Fellowship for the Sciences for \$5000, 2019.	
	CUNY Science Scholarship, 2016.	
<b>Publications</b>	CONICET Doctoral Fellowship, 2016.	
	<b>First author</b>	
	<i>Calibration of the H<math>\alpha</math> Age-Activity relation for M dwarfs</i> <b>Kiman, R.</b> ; 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.	
	<i>wdwarfdate: A python package to estimate white dwarfs ages in a Bayesian framework.</i> <b>Kiman, R.</b> ; Xu, S.; Faherty, J.K.; Angus, R.; Casewell, S.L.; Gagné, J.; Cruz, K.L.; in prep. Approximate submitting date: September 14 2020	
	<i>Exploring the age dependent properties of M and L dwarfs using Gaia and SDSS.</i> <b>Kiman, R.</b> , 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

### *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

## Selected Talks

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

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

*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.* Invited talk, May 23, 2019, Princeton University, NJ, USA.

*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.

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

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

## Poster Presentations

*Age-Activity relation for M dwarfs using H $\alpha$  equivalent widths* Kiman R., Faherty J., Cruz K., Xu S., Schmidt S., Angus R., Gagné J., Bardalez Gagliuffi D., Rice E., AAS 235, 4-8 January, 2020, Honolulu, HI, 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., 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., Cool Stars, July 30 to August 3, 2018, Boston-Cambridge, USA.

*Age Dating Low Mass Stars Using Galactic Kinematics.* Kiman, R., Cruz, K.L., Angus, R., Schmidt, S.J. & Faherty, J.K., 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., BDExoCon II, 26-27 October 2017, Delaware, USA.

*Photolysis of caged compounds with controlled temporal modulation.* Kiman, R., Camino, P., Ponce Dawson, S., Lopez, L., Piegari, S., 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.

## Schools Attended

*Space Astrometry For Astrophysics.* 3-7 June 2019, L'Aquila, Italy

*IYAS on the scientific exploration of the Gaia data.* February 26 to March 2, 2018, Paris, France.

*La Serena School of Data Science.* 21-29 August, 2017, La Serena, Chile.

## Outreach Activities

Outreach Assistant

2014 - 2016

Universidad de Buenos Aires, Argentina

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.