

# Yijung Kang

## Curriculum Vitae

Rubin Observatory Base Facility  
Casilla 603  
La Serena, Chile

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### Current Position

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2022-present **Observing Specialist**

**Rubin Observatory & SLAC National Accelerator Lab**

Research Associate, 50% for commissioning and operation and 50% for research:

*Controlling and operating telescopes & cameras with systems, troubleshooting*

*Reporting nightly observing log and fault reports, documentation*

### Previous Position

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2019-2022 **Science Fellow**, Research and Science Services

**Gemini Observatory**, La Serena, Chile

Postdoctoral fellow, 50% for research and 50% for observatory support:

*Queue coordinating, night observation, instrument support, user support*

### Education

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2020 Ph.D. in Astronomy, Yonsei University, Seoul, South Korea

Advisor : Prof. Young-Wook Lee

Thesis: “*Evidence for Luminosity Evolution in Type Ia Supernova Cosmology from Spectroscopy of Early-type Host Galaxies*”

2012 M.S. in Astronomy, Yonsei University, Seoul, South Korea

Advisor : Prof. Young-Wook Lee

2010 B.S. in Astronomy and Physics, Yonsei University, Seoul, South Korea

### Grants, Fellowships, and Telescope Time Awarded

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#### Successful Telescope Proposals

2021 **Very Large Array**

VLA/21A-310 (50 hours; PI: **Yijung Kang**)

2015-2016 **Gemini N & S** via K-GMT science program

GS-2015B-Q-41, GN-2016A-Q-51 (total 14 hours; PI: Y.-W. Lee)

2014 **MMT** via K-GMT science program

2014B-UAO-G16 (total 1 night; PI: Y.-W. Lee)

### Assistantship & Scholarship

2011-2017 Teaching/Research assistantship, Yonsei University (\$23,460)  
2010-2014 BK 21 (Brain Korea 21) & BK 21 Plus Scholarship (academic excellence; \$34,100)

### Language Skills

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English (proficient), Spanish (conversant), Korean (native)

### Observational Experiences

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#### Observatory Support

2022-present **Rubin Observatory**

Day- and night-time commissioning and operating activities at the site  
Controlling and operating telescopes, cameras, and systems  
Performing basic troubleshooting and evaluation of the delivered image quality  
Reporting the nightly observing log and submitting fault reports  
Contributing documentations related to observatory operations

2019-2022 **Gemini Observatory**

Preparing for night queue observation plans (~7 weeks/year)  
Executing night observations (~15 nights/year)  
Specialized program support (~15 queue programs/semester)  
Instrument support for Gemini Multi-Object Spectrographs (GMOS)

#### Optical Long-slit spectroscopy

2015-2016 14 hours at Gemini North & South 8.1 m telescope: GMOS long-slit  
2014-2016 10 nights at MMT 6.5 m telescope: Blue Channel Spectrograph  
2011-2013 27 nights at Ireene du Pont 2.5 m telescope: The Boller & Chiven Spectrograph  
2010 8 nights at CTIO SMART 1.5 m telescope: The R-C Spectrograph

#### Optical Integrated Field Units (IFU) spectroscopy

2011-2012 22 nights at McDonald 2.7 m telescope: Virus-P

### Teaching and Institutional Experiences

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2016-2017 Observing Facility Assistant, Dept. of Astronomy, Yonsei University  
Spring 2010 Teaching Assistant of Introduction to Astronomy I, Yonsei University  
Fall 2010, 2011 Teaching Assistant of Galaxies And The Universe I, Yonsei University

### Scientific Activities and Public Outreach

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2022 (expected) SOC, *Joint Observatories Kavli Science Forum 2021*, Santiago, Chile  
2021-present Panelist, Extragalactic Panel in *Chilean Telescope Allocation Committee*  
2018 Mentor, mentoring program for high school students

	via <i>Korea Center for Women in Science, Engineering, and Technology (WISET)</i>
2016	SOC, <i>2016 Korean Young Astronomers Meeting and We Love Galaxies</i>
2015	LOC, <i>We Love Galaxies 2015</i>
2014-2015	Chair, <i>Korean Young Astronomers Meeting (KYAM)</i> Organizing KYAM attendees for EAYAM 2015 (Feb. 2015) Organizing Regular KYAM meetings (Oct. 2014, Apr. 2015) Organizing APRIM-KYAM dinner meeting, the exhibition booth at APRIM 2014 (Aug.2014)
2009	Undergraduate researcher, Undergraduate Research Program (URP) Research on the Light Pollution in Seoul and Gyeonggi Province, Korea
2007-2009	Regular member, Student club for the public outreach in astronomy President of the club (2008) Volunteering for public outreach programs at center of Korea observatory Public education and outreach activities at Yonsei-Samae campus

## Computing Backgrounds

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<b>Computer languages</b>	IDL, Python, Fortran
<b>Data reduction software</b>	IRAF (Image Reduction and Analysis Facility), Ureka, PyRAF (IRAF based on the Python), VACCINE (reduction tool for VIRUS-P), DAOPHOT
<b>Astronomical software</b>	pPXF + GANDALF (Cappellari 2017; Sarzi et al. 2006), EZ_ages (Graves & Schiavon 2008), Prospector (Johnson et al. 2020)

## Presentations

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### Talks & Colloquias

Nov. 2020	Contributed talk, <i>K-GMT Science Program Users Meeting 2020</i> , virtual
Apr. 2020	Colloquium talk, <i>University of Valparaiso</i> , Chile (virtual)
Jan. 2019	Dissertation talk, <i>American Astronomical Society, AAS Meeting #233</i> , Seattle, USA
Feb. 2018	Contributed talk, <i>K-GMT Science Program Users Meeting 2018</i> , South Korea
Feb. 2017	Contributed talk, <i>K-GMT Science Program Users Meeting 2017</i> , South Korea
Jan. 2016	Contributed talk, <i>American Astronomical Society, AAS Meeting #227</i> , FL, USA
Feb. 2015	Contributed talk, <i>East Asian Young Astronomers Meeting 2015</i> , Taiwan
Apr. 2014	Contributed talk, <i>Korean Astronomy Society Fall meeting 2014</i> , South Korea
Apr. 2013	Contributed talk, <i>Korean Astronomy Society Fall meeting 2013</i> , South Korea

### Poster Presentations

Dec. 2020	XVI SOCHIAS Annual Meeting (virtual), Chile
Aug. 2018	Science and Evolution of Gemini Observatory, USA
Apr. 2017	Korean Astronomy Society Fall meeting, South Korea
Sep. 2014	Type Ia Supernovae: progenitors, explosions, and cosmology, USA

Aug. 2014 12th Asia-Pacific Regional IAU Meeting (APRIM), South Korea  
Jun. 2014 The Evolution of Stellar Populations in Globular Clusters & Early-type Galaxies, South Korea  
Aug. 2012 XXVIII General Assembly of IAU, China  
Oct. 2013 Korean Astronomy Society Fall meeting, South Korea  
Oct. 2011 Korean Astronomy Society Fall meeting, South Korea