Jinmi Yoon, Ph.D.

340D Nieuwland Science Hall
 Department of Physics
 University of Notre Dame, IN 46556 USA

**** +1-631-902-1527

Curriculum Vitae

jinmi.yoon@gmail.com
jinmiyoon.github.io/
ORCID: 0000-0002-4168-239X

Education

2002 − 2008 Ph.D. Physics (Astrophysics)

Department of Physics and Astronomy, Stony Brook University, NY, USA Dissertation title: *Rotation and Evolution of A and F stars*

Advisor: Prof. Deane M. Peterson

1999 − 2002 **M.Sc. Physics**

School of Physics, Seoul National University, Seoul, Republic of Korea

1995 − 1999 **■ B.Sc. Physics**

Department of Physics, University of Seoul, Seoul, Republic of Korea (graduated with a top honor and Dean's award for academic excellence)

Appointments

2017 - Present | IINA-CEE Postdoctoral Fellow

Department of Physics and Joint Institute for Nuclear Astrophysics-Center for the evolution of the elements, University of Notre Dame, IN USA

2015 – 2017 Postdoctoral Research Associate

Department of Physics and Joint Institute for Nuclear Astrophysics-Center for the evolution of the elements, University of Notre Dame, IN USA

2001–2002 Adjunct faculty (lecturer and lab instructor)
Department of Physics, University of Seoul, Seoul, Republic of Korea

Awards/Honors/Achievements

2017–present ■ JINA-CEE Postdoctoral Fellowship, University of Notre Dame

2016–present AAS Astronomy Ambassador program cohort, Astronomical Society of the Pacific (ASP) & American Astronomical Society (AAS)

2000 − 2001 Rational University

Dean's award (from the College of Liberal Arts and Sciences) for academic excellence, University of Seoul

■ Graduated with a top honor, the department of Physics, The University of Seoul

1995 – 1998 ■ Scholarship for academic excellence/top 3 highest class rank, the department of Physics, University of Seoul

Research Interests

Galactic archaeology

■ The nature of the first-generation of stars through chemodynamical analysis of the most metal-poor stars, in particular, carbon-enhanced metal-poor (CEMP) stars in the Galactic halo and the ultra-faint dwarf (UFD) galaxies

Near-field cosmology Galactic chemical evolution ■ Formation and evolution of galaxies in the early Universe

■ Evolution of chemical elements throughout the Galactic assembly history, in particular, its early enrichment history

Nuclear astrophysics

■ Origin and evolution of elements and first-star nucleosynthesis (quiescent stellar burning processes and neutron-capture processes such as s-process, i-process, and r-process)

Stellar Astrophysics

■ Stellar evolution and (rapid) rotation of intermediate-mass and massive stars

Research Publications

An inactive publication gap during 2011-2014 is due to an extended family leave. Each article with citations can be also found at my ADS library and my ORCID link. * Students I have mentored.

First-Authored Peer Reviewed Journal Articles

- I. Yoon, J., Beers, T. C., Tian*, D. & Whitten*, D. D. Origin of the CEMP-no Group Morphology in the Milky Way, The Astrophysical Journal, 878, 97 June 2019. doi:10.3847/1538-4357/ab1ead. arXiv: 1904.02758 [astro-ph.SR].
- 2. Yoon, J., Beers, T. C., Dietz*, S., Lee, Y. S., Placco, V. M., Da Costa, G., Keller, S., Owen, C. I. & Sharma, M. Galactic Archeology with the AEGIS Survey: The Evolution of Carbon and Iron in the Galactic Halo, The Astrophysical Journal, 861, 146, July 2018. doi:10.3847/1538-4357/aaccea. arXiv: 1806.04738 [astro-ph.SR].
- 3. Yoon, J., Beers, T. C., Placco, V. M., Rasmussen*, K. C., Carollo, D., He, S., Hansen, T. T., Roederer, I. U. & Zeanah, J. Observational Constraints on First-star Nucleosynthesis. I. Evidence for Multiple Progenitors of CEMP-No Stars, The Astrophysical Journal, 833, 20, Dec. 2016. doi:10.3847/0004-637X/833/1/20. arXiv: 1607.06336 [astro-ph.SR].
- 4. Yoon, J., Peterson, D. M., Kurucz, R. L. & Zagarello, R. J. A New View of Vega's Composition, Mass, and Age, The Astrophysical Journal, 708, 71, Jan. 2010. doi:10.1088/0004-637X/708/1/71.
- 5. Yoon, J., Peterson, D. M., Zagarello, R. J., Armstrong, J. T. & Pauls, T. The Effect of Rotation on the Spectrum of Vega, The Astrophysical Journal, 681, 570, July 2008. doi:10.1086/588550. arXiv: 0803.3145 [astro-ph].
- 6. Yoon, J., Peterson, D. M., Armstrong, J. T., Clark James H., I., Gilbreath, G. C., Pauls, T., Schmitt, H. R. & Zagarello, R. J. The Effect of Rotation on Calibrators for Ground-based Interferometry, Publications of the Astronomical Society of the Pacific, 119, 437, Apr. 2007. doi:10.1086/518270.

Journal Articles Under Review

- 7. Dietz*, S., Yoon, J., Beers, T. C. & Placco, V. M. The Metallicity Gradient and Complex Formation History of the Outermost Halo of the Milky Way, submitted to The Astrophysical Journal Nov. 2019. arXiv: 1910.10038 [astro-ph.SR].
- 8. Yoon, J., Whitten*, D. D., Beers, T. C., Lee, Y. S. & Placco, V. M. *Identification of a Group III CEMP-no Star in the Dwarf Spheroidal Galaxy Canes Venatici I, submitted to The Astrophysical Journal* Oct. 2019. arXiv: 1910.10038 [astro-ph.SR].

Co-Authored Peer Reviewed Journal Articles

- 9. Lee, Y. S., Beers, T. C., Kim, Y. K., Placco, V., Yoon, J., Carollo, D., Masseron, T. & Jung, J. Chemical Cartography. I. A Carbonicity Map of the Galactic Halo Feb. 2017. doi:10.3847/1538-4357/836/1/91. arXiv: 1702.00195 [astro-ph.GA].
- 10. Placco, V. M., Frebel, A., Beers, T. C., Yoon, J., Chiti, A., Heger, A., Chan, C., Casey, A. R. & Christlieb, N. Observational Constraints on First-Star Nucleosynthesis. II. Spectroscopy of an Ultra metal-poor CEMP-no Star Dec. 2016. doi:10.3847/0004-637X/833/1/21. arXiv: 1609.02134 [astro-ph.SR].
- 11. Hansen, T. T., Andersen, J., Nordström, B., Beers, T. C., Placco, V. M., **Yoon**, J. & Buchhave, L. A. *The role of binaries in the enrichment of the early Galactic halo. III. Carbon-enhanced metal-poor stars CEMP-s stars* Apr. 2016. doi:10.1051/0004-6361/201527409. arXiv: 1601.03385 [astro-ph.SR].
- 12. Hansen, T. T., Andersen, J., Nordström, B., Beers, T. C., Placco, V. M., Yoon, J. & Buchhave, L. A. The role of binaries in the enrichment of the early Galactic halo. II. Carbon-enhanced metal-poor stars: CEMP-no stars Feb. 2016. doi:10.1051/0004-6361/201527235. arXiv: 1511.08197 [astro-ph.SR].
- 13. Hansen, T. T., Andersen, J., Nordström, B., Beers, T. C., Yoon, J. & Buchhave, L. A. The role of binaries in the enrichment of the early Galactic halo. I. r-process-enhanced metal-poor stars Nov. 2015. doi:10.1051/0004-6361/201526812. arXiv: 1509.05344 [astro-ph.SR].

Pre-prints

14. Aprahamian, A., Surman, R., Frebel, A., McLaughlin, G. C., Arcones, A., Balantekin, A. B., Barnes, J., Beers, T. C., Holmbeck, E. M., Yoon, J., Brodeur, M., Sprouse, T. M., Vassh, N., Cizewski, J. A., Clark, J. A., Cote, B., Couch, S. M., Eichler, M., Engel, J., Ezzeddine, R., Fuller, G. M., Giuliani, S. A., Grzywacz, R., Han, S., Horowitz, C. J., Kankainen, A., Korobkin, O., Kwiatkowski, A. A., Lawler, J. E., Lippuner, J., Litvinova, E., Mathews, G. J., Mumpower, M. R., Naimi, S., Nazarewicz, W., O'Connor, E., O'Shea, B. W., Perego, A., Perdikakis, G., Radice, D., Richers, S., Roberts, L. F., Robin, C., Roederer, I. U., Siegel, D. M., Schunck, N., Spyrou, A. & Zhu, Y.-L. *FRIB and the GW170817 Kilonova* Sept. 2018. arXiv: 1809.00703 [astro-ph.HE].

Conference Proceedings

- Dietz*, S., Beers, T. C., Placco, V. M., Yoon, J. & AEGIS Collaboration. Kinematic and Chemical Analysis of AEGIS Survey Stars in IAUS 334 Rediscovering Our Galaxy (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) 334 (Aug. 2018), 283–284. doi:10.1017/S1743921317006895.
- 16. Lee, Y. S., Beers, T. C., Yoon, J., Kim, Y. K. & Jeong, J. Assembly of the Galactic Halo System Based on Carbon-Enhanced Metal-Poor Stars in IAUS 334 Rediscovering Our Galaxy (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) 334 (Aug. 2018), 327–328. doi:10.1017/S1743921317007529.
- 17. Rasmussen*, K. C., Beers, T. C., Placco, V. M., Yoon, J. & Dietz*, S. Measurement of [Fe/H] and [C/Fe] for Metal-Poor Stars from the RAVE Survey in IAUS 334 Rediscovering Our Galaxy (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) 334 (Aug. 2018), 353–354. doi:10.1017/S1743921317007001.
- 18. Yoon, J., Whitten*, D. D., Beers, T. C., Placco, V. M., Lee, Y. S., Dietz*, S., Gudin*, D. & Rasmussen*, K. C. Lifting the Veil on Ultra Metal-Poor Stars in the Outermost Halo in IAUS 334 Rediscovering Our Galaxy (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) 334 (Aug. 2018), 389–390. doi:10.1017/S174392131700792X.
- 19. Yoon, J., Peterson, D. M., Armstrong, T., Clark James H., I., Gilbreath, C., Pauls, T. & Schmitt, H. R. Early type stars as calibrators for ground-based interferometry in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series 6268 (June 2006), 626848. doi:10.1117/12.670309.

Presentations

Invited Talks and Seminars

- Dec 2019 Understanding cosmic origins with the relics of the first stars", Colloquium at Carnegie Observatories, CA
- Jun 2019 We are Star Stuff: Galactic Archaeology and the Origin of the Elements", REU seminar talk, University of Notre Dame, IN
- May 2019 ■ "First-star nucleosynthetic imprints in the Milky Way and its satellite dwarf galaxies", 2019 JINA-CEE Frontiers meeting, East Lansing, MI
- - "Unraveling the Assembly History of the Galactic halo with CEMP-no Stars", Colloquium talk, Korea Astronomy and Space Science Institute, Daejeon, Korea
- Oct 2017 Galactic Archeology: Study of the Early Universe with Ancient Stars", the department of Physics and Astronomy at Indiana University at South Bend, South Bend, IN
- Jul 2017 Galactic Archeology: Study of the Early Universe with Metal-Poor Stars", Astronomy seminar at Department of Astronomy & Space Science, Chungnam National University, Daejeon, Korea
- Sep 2016 Near-Field Cosmology with Carbon-Enhanced Metal-Poor stars", Astrophysics seminar, at Department of Physics, University of Notre Dame, IN

Contributed Talks

- Sep 2019 Origin of CEMP-no morphology in the Milky Way halo" at CEMP stars as Probes of First-Star Nucleosynthesis, the IMF, and Galactic Assembly, University of Geneva, Switzerland
- Dec 2018 The Origin of CEMP-no: Connection to the Satellite Dwarf Galaxies" at Stellar Archeology as a Time Machine to the First Stars, Kavli IPMU, Japan
- May 2018 ■ "Near Field Cosmology with most metal-poor stars" at Enzo Workshop 2018, Atlanta, GA
- Nov 2017 "Lifting the Veil of Ultra Metal-Poor stars in the Outermost Galactic Halo" at A Celebration of CEMP & Gala of GALAH workshop, Melbourne, Australia
- Aug 2017 Lifting the Veil of Ultra Metal-Poor stars in the Outermost Galactic Halo" at Giant Magellan Telescope Community meeting, Tarrytown, NY
- Feb 2017 Rest and Farthest: Searching for Ultra Metal-Poor stars in the Outermost Galactic Halo" at JINA-CEE Frontiers meeting, Lansing, MI
- Jan 2017 Best and Farthest: Searching for Ultra Metal-Poor stars in the Outermost Galactic Halo" at 229th American Astronomical Society Meeting, Grapevine, TX
- Oct 2008 Updating Vega's mass, age, and evolutionary status" at the Astronomical Society of New York, New York, IN

Presentations (continued)

Apr 2007 The effects of rotation on early type stars as ground-based interferometry calibrators" at the Astronomical Society of New York, Albany, NY

Posters

- Jul 2017 Lifting the Veil of Ultra Metal-Poor stars in the Outermost Galactic Halo" at 334 IAU symposia, Potsdam, Germany
- Apr 2017 Searching for Ultra Metal-Poor stars in the Outermost Galactic Halo" at JINA-CEE NSF review site visit, Michigan State University, East Lansing, MI
- Aug 2016 Absolute Carbon Abundance Distribution of Carbon-Enhanced Meta-Poor stars" at The First Stars conference, Heidelberg, Germany
- Mar 2016 ■ "Carbon Plateaus among Carbon-Enhanced Metal-Poor stars" at 2016 JINA-CEE frontiers meeting, South Bend, IN
- Jan 2016 Carbon Plateaus among Carbon-Enhanced Metal-Poor stars" at 227th American Astronomical Society meeting, Kissimmee, FL
- Jun 2015 Tracing Ultra Faint Dwarf galaxies with CEMP-no stars" at Local Group Astrostatistics conference, University of Michigan at Ann Arbor, MI
- Mar 2015 Searching for Ultra Faint Dwarf galaxies using CEMP-no stars" at JINA-CEE frontiers in Nuclear Astrophysics, Michigan State University, East Lansing, MI
- May 2006 "Early type stars as calibrators for ground-based interferometry" at the International Society for Optical Engineering, Orlando, FL

Observations/Proposals

2016 - Present ■ Large Binocular Telescope (LBT)

- PEPSI (as Co-I) 2017B (5 hours)
- MODS (as PI) 2016B (2.8 hours), 2017A (12 hours), 2017B (4 hours), 2018A (4 hours), 2018B (1.5 hours), 2019A (2 hours), 2019B (2 hours)

- GMOS (as Co-I) Gemini Fast turnaround program 2017A (5.5 hours granted)
- GMOS (as PI) Gemini Fast turnaround program 2017B (6.3 hours granted)

Research Experience

Galactic chemical evolution with Dr. Benoit Côté (Konkoly Observatory, Hungary)

Galactic chemical evolution with Dr. Benoit Côté (Konkoly Observatory, Hungary)

Simulations of the chemical enrichment and stellar feedback, in particular, of the early generation of stars using the NuGrid pipeline (https://nugrid.github.io/NuPyCEE/index.html) and comparison between the theoretical chemical yields and the observational data of the most metal-poor stars in the halo.

Effect of stochastic star formation on Galactic chemical evolution

Galactic archaeology with Prof. Timothy C. Beers

JINA-CEE Postdoctoral Fellow (2017-present) and Postdoctoral Associate (20152017) at the department of Physics and JINA-CEE, University of Notre Dame

Research Experience (continued)

2004–2008 Stellar Rapid Rotation and Evolution of A and F stars with Prof. Deane M. Peterson

Graduate Research Assistant at the department of Physics and Astronomy, Stony Brook University

Ph. D. Dissertation titled "Rotation and Evolution of A and F stars"

Summer 2004 Stellar Imager Design Reference Mission with Prof. Fred Walter

Graduate Research Assistant at the department of Physics and Astronomy, Stony Brook University

• Developed the observation scheduling code using IDL language

Summer 2003 Photometry Reduction with Prof. Michal Simon

Graduate Research Assistant at the department of Physics and Astronomy, Stony Brook University

2000-2001 High Energy Physics with Prof. Soo-Jong Rey

Graduate Research Assistant at the School of Physics, Seoul National University Master of Science thesis titled "Closed string dynamics in tensor fields"

External Funding/Travel Grants

Dec 2018 Travel grant from a conference, Stellar Archeology as a Time Machine to the First Stars, IMPU, Japan

AAS 2018B International travel grant for a travel to a conference, Stellar Archeology as a Time Machine to the First Stars, Kavli IPMU, Japan

Jul 2018 Full travel grant from a workshop, FRIB Theory Alliance r-process meeting

May 2018 ■ Full travel grant from ENZO user tutorial workshop

Nov 2017 AAS 2017B International travel grant for a trip to a conference, A celebration of CEMP and gala of GALAH, Melbourne, Australia

Jul 2017 📕 IAU travel grant, Rediscovering the Galaxy, IAU symposium 334 at Potsdam, Germany

Jan 2017 Travel grant from Astronomical Society of Pacific & AAS to participate AAS Astronomy Ambassador Program

Jun 2006 Partial travel grant from Astronomical Society of New York to attend Michelson Summer Workshop in Pasadena, Caltech

■ Partial Travel Grant from Michelson Summer Workshop, in Pasadena, Caltech

Research Travel Award from Stony Brook University Graduate Student Organiztion to attend Michelson Summer Workshop, in Pasadena, Caltech

2000–2001 Rain Korea 21 scholarship, School of Physics, Seoul National University

Full Scholarship (full tuition waived for 3 years) for 3 highest class rank, Department of Physics, University of Seoul

Scholarship (tuition partially waived for a semester), Department of Physics, University of Seoul

Grant Review Experience and Workshops

Mar 2019 ■ NSF Astronomy & Astrophysics Grant Review panelist

May 2018 Writing Successful Grants workshop held at the University of Notre Dame

Teaching Experience

- May 2019 Summer school lecturer, JINA-CEE First Frontiers Summer School, Michigan State University, East Lansing, MI
 - Lecture about stellar evolution and elemental production processes
- 2002–2004 Graduate Teaching Assistant, Department of Physics and Astronomy, Stony Brook University
 - Introductory Astronomy, Planetary Sciences, Physics Labs
- 2001–2002 Adjunct Faculty (lecturer and Lab instructor), Department of Physics, University of Seoul
 - Introductory Physics I and II classes for engineering and science students
- Graduate Teaching Assistant, School of Physics, Seoul National University

 − Grading for introductory Physics I and II classes for engineering and science students for 4 semesters
- 1998-1999 Undergraduate Teaching Assistant, Department of Physics, University of Seoul
 - Tutoring teaching university-level physics to a high school student
 - 1997 Tutoring calculus to a high school student

Teaching Workshops

- Attended several teaching workshops held at University of Notre Dame (Kaneb Center for Teaching and Learning)
- 2017 Beyond the Abstract: Teaching with Scientific Literature
 - Maker Series: Adobe Spark Video
 - Preparing for the Academic Job Search IV: Writing a Teaching Statement
 - A Landscape View of Digital Teaching and Learning: How to Jump in
 - Helping Students in Distress
 - Understanding and Fostering Student Motivation
- 2016 Teaching Writing across Disciplines
 - Foundations of Teaching in STEM Session I-IV
 - Once Upon a Time: Storytelling as a Tool for Teaching and Learning

Mentoring Experience

- 2019–Present
- Leading and mentoring a group of graduate students (Dmitrii Gudin, Devin Whitten, and Joseph Zepeda) for a project (CASPER; CEMP Group Assignment and Stellar Parameter Estimation Routine), which analyzes very cool (3500 < $T_{\rm eff}$ < 4500 K) CEMP stars and develops a python stellar parameter estimation routine package for cool CEMP stars.
- 2017-2018
- Di Tian (REU student at University of Notre Dame and undergraduate student from Xi'an Jiaotong University, China)
 - now a Ph D student at Tsinghua University
 - kinematics studies of the high latitude high proper motion stars
 - Explored A(C)-[Fe/H] relation of satellite dwarf galaxies
 - Led to a publication for the Astrophysical Journal (Yoon et al., 2019, ApJ, 878,97)

Mentoring Experience (continued)

2017-Present

- Dmitrii Gudin (Graduate student at University of Notre Dame)
 - Study of galaxy formation via data of metal poor stars from cosmological simulations and the project CASPER.
- Devin Whitten (Graduate student at University of Notre Dame)
 - Developing a novel technique to derive reliable stellar parameters for very cool carbon stars
 - Led to two publications in the Astrophysical Journal (Yoon et al., 2019, 878, 97 and Yoon et al., 2019, ApJ submitted, arXiv: 1910.10038) and two articles in preparation ("CASPER: CEMP Group Assignment and Stellar Parameter Estimation Routine" & "Where are ultra metal-poor stars found in the Galaxy?")

2016-Present

- Sarah Dietz (Graduate student at University of Notre Dame)
 - Kinematics studies of the metal-poor stars and metallicity gradient in the Galactic halo
 - Published two articles (Dietz et al. 2018, Proceedings of IAU S334, 329 and Yoon et al. 2018, ApJ,861,146), one under review ("Metallicity Gradient and Complex Formation History of the Outermost Halo of the Milky Way", submitted to ApJ), and one in prep ("Kinematic study of the MWTD with the AEGIS survery")

2015-2016

- Kaitlin Rasmussen (Graduate student at University of Notre Dame)
 - First-star nucleosynthesis using CEMP stars
 - led to a publication (Yoon et al., 2016, ApJ, 833, 20)

Summer 2005

- Danielle Kumpulanian (REU student from Rensselaer Polytechnic Institute at Stony Brook University)
 - Helping basic linux operation and programming

Outreach Activities

- 2019 Our Universe Revealed series, an outreach public program at the Department of Physics at University of Notre Dame
 - A public outreach talk titled "Galactic Archeology"
 - South Bend community science fair 'Science Alive' for general public audience
 Lead an activity of explaining body composition and the origins of the elements
- 2017 Great American Solar Eclipse
 -Help with public observation
- JINA-CEE Art2Science Camp for 2-8th grade students

 − Leading Atomic spectroscopy activity
 - Michiana Astronomical Society Meeting, South Bend, IN
 A public outreach talk titled "Galactic Archeology: Search for the oldest stars"
 - South Bend community science fair 'Science Alive' for general public audience led an activity explaining the nature of outer space using vacuum chambers

2016-Present

- AAS Astronomy Ambassador
- 2004–2008 Public of
- Public observation sessions at Stony Brook University

Professional Associations

2016–Present AAS Astronomy Ambassador cohort 2016

2015-Present | Joint Institute for Nuclear Astrophysics-Center for the Evolution of the Elements

2006-Present American Astronomical Society (AAS)

Service

Serving as a mentor for Advancing Women Leaders program at University of Notre Dame

- Co-organizer and lecturer, First Frontiers Summer School, Michigan State University, East Lansing, MI
- Grant review panelist, National Science Foundation, 2019 Astronomy and Astrophysics Grant Review

Organizing chairperson, JINA-CEE Frontiers in Nuclear Astrophysics, University of Notre Dame, IN University of Notre Dame, IN

- Featured at http://www.jinaweb.org/docs/Newsletters/JINA-CEE-Newsletter-September-2018Final.pdf
- Overseeing local and scientific organizing for both Junior Researchers Workshop (\sim 70 people) and the main conference (\sim 130 people)
- The main conference consisted of invited science talks, contributed talks, poster sessions, and breakout sessions.
- Offered a diversity & inclusion talk titled as "Blinded to Excellence" based on neuroscience and behavioral studies.
- Junior Research Workshop offered scientific writing, grant writing, publishing AAS journals, speaking skills, outreach workshop along with overview talks and contributed talks

2017 Reviewer, Gemini Fast Turnaround Program proposals

- Co-organizer, JINA-CEE Frontiers in Nuclear Astrophysics, East Lansing
- Session chair, Junior Researcher workshop, JINA-CEE Frontiers in Nuclear Astrophysics, East Lansing, MI

2016 Co-organizer, JINA-CEE Frontiers in Nuclear Astrophysics, South Bend, IN

2016 − Present AAS Astronomy Ambassador, Astronomical Society of Pacific and American Astronomical Society

Miscellaneous Experience

Computing and Data Science

Data exploration Python, R, Postgres QL, Matplotlib, gnuplot

Spectroscopy | IRAF, SSPP, n-SSPP, MOOG, SMH, modsCCDRed

Simulations NuPyCEE pipeline (Galactic Chemical Evolution codes), galpy (Kinematics code), ROCHE (Rotating star modeling code)

Miscellaneous Experience (continued)

Project Management

2018-present

▶ Project leader and mentor (of 3 graduate students) for the CCSLab project group, which analyzes very cool (3500 $< T_{\rm eff} < 4500\,{\rm K}$) carbon-enhanced metal-poor stars and is developing a python stellar parameter pipeline package, University of Notre Dame

2018-Present

■ Leading a project which explores metallicity gradient in the Galactic halo and mentoring a graduate student, Sarah Dietz, for this project

2017-2018

■ Organizing chair for 2018 JINA-CEE Frontiers meeting (130+ people) and Junior researchers workshop (~ 70 people), University of Notre Dame and Joint Institute for Nuclear Astrophysics-Center for the Evolution of the Element

Fall 1998

Physics Department administrative assistant, University of Seoul, Seoul, Korea

Media/Press/Newsletters

Sep 2018 Frontiers in Nuclear Astrophysics meeting 2018 featured at JINA-CEE newsletter (http://www.jinaweb.org/docs/Newsletters/JINA-CEE-Newsletter-September-2018Final.pdf)

Dec 2016 Second-generation stars identified, giving clues about their predecessors", by Brian Wallheimer featured at Notre Dame News (http://news.nd.edu/news/second-generation-stars-identified-giving-clues-about-their-predecessors/), Science Daily, Phys.org, EurekAlert, eScience News.

References

Timothy C. Beers (postdoc advisor)

Grace-Rupley Professor Department of Physics and JINA-CEE University of Notre Dame Notre Dame, IN 46556 USA

**** +1-574-631-4088

□ tbeers@nd.edu

Young Sun Lee

Assistant Professor Department of Astronomy & Space Science Chungnam National University Daejeon 34134, South Korea

**** +82-42-82I-5466

☑ youngsun@cnu.ac.kr

Sung-Chul Yoon

Professor Department of Physics and Astronomy Seoul National University Seoul, 151-742, South Korea

**** +82-2-880-6627

✓ yoon@astro.snu.ac.kr

Volker Bromm

Professor Department of Astronomy University of Texas at Austin Austin, TX 78712 USA

L +I-512-47I-3432

☑ vbromm@astro.as.utexas.edu

Ian U. Roederer

Associate Research Scientist Department of Astronomy University of Michigan Ann Arbor, MI 48109, USA

L +1-734-615-7374

☑ iur@umich.edu