Yasaman Homayouni | Curriculum Vitae

Department of Physics, University of Connecticut – Storrs, CT 06269-3046

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Employment and Education

Department of Physics, University of Connecticut, Storrs CT, United States
PhD Candidate in Physics *2014 - present*

Department of Physics, University of Tehran, Tehran, Iran
M.Sc. of Physics *2011 - 2013*

Department of Science, University of Tabriz, Tabriz, Iran
B.Sc. of Physics *2006 - 2010*

PhD Thesis

Title: *Light Echoes of Black Hole Growth* (Advisor: Prof. Jonathan Trump)

M.Sc. Thesis

Title: *Sudden Future Cosmic Singularities* (Advisor: Prof. Fatimah Shojai)

Bachelor Thesis

Title: *Detection of Solar g-mode Oscillation* (Advisor: Prof. Ali Ajabshirzadeh)

Awarded Proposals and Honors

2018: Hubble Space Telescope : HST-GO-15650, PI: Y. Homayouni "Ultarviolet Echoes of Quasar Accretion Disks", Observed in spring 2019

2018: Liverpool Telescope, PI: Y. Homayouni "Accretion-Disc Echo Mapping: Adding Optical to Hubble UV", Observed in spring 2019

2018: Spring Doctoral Dissertation Fellowship

2013: Ranked top 1% out of 5,000 applicants in National Enterance Examination for PhD program in the field of Physics, Tehran, Iran

Publications

15: **Homayouni, Y.**, Trump, R. J., Grier, C. J., et al. 2020, *The Sloan Digital Sky Survey Reverberation Mapping Project: MgII Lag Results from Four years of Monitoring*, arXiv:2005.03663

14: **Homayouni, Y.**, Trump, R. J., Grier, C. J., et al. 2019 *The Sloan Digital Sky Survey Reverberation Mapping Project: Accretion disk sizes from continuum lags*, ApJ, 880, 126, 2019

13: **Homayouni, Y.**, Ajabshirizadeh, A. *Detection of Solar Oscillation(g-mode)* AIPC 1356, 95, 2011

12: Fonseca Alvarez, G., Trump, R. J, **Homayouni, Y.**, et al. 2020 *The Sloan Digital Sky Survey Reverberation Mapping Project: The H-beta Radius-Luminosity relation (Accepted for publication in ApJ)*

11: Dalla Bonta, E., Peterson, B. M., Bentz, M., et al. 2020 *The Sloan Digital Sky Survey Reverberation Mapping Project: Estimating Masses of Black Holes in Quasars with Single-Epoch Spectroscopy*, arXiv:2007.02963

10: Wang, S., Shen, Y., Jiang, L. et al. 2020 *The Sloan Digital Sky Survey Reverberation Mapping Project: How Broad Emission Line Widths Change When Luminosity Changes*, arXiv:2006.06178

9: Li, J., Shen, Y., Ho, L. C. et al. 2020 *The Sloan Digital Sky Survey Reverberation Mapping Project:The $M_{BH} - Host$ Relations at 0.2<z<0.6 from Reverberation Mapping and Hubble Space Telescope Imaging*, arXiv:2006.02522

8: Grier, C. J., Shen, Y., Horne, K. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: CIV Lag Results from Four years of Data*, ApJ, 887, 38, 2019

7: Dexter, J., Xin, S., Shen, Y. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Accretion and Broad Emission Line Physics from a Hypervariable Quasar*, ApJ, 885, 44, 2019

6: Li, J., Shen, Y., Brandt, W. N. et al. 2019 *The Sloan Digital Sky Survey Reverberation Mapping Project: Comparison of Lag Measurement Methods with Simulated Observations*, ApJ, 884, 119, 2019

5: Shen, Y. , Grier, C. J., Horne, K. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Improving Lag Detection with an Extended Multi-Year Baseline*, ApJ, 883, 14, 2019

4: Wang, S., Shen, Y., Jiang, L. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Low-ionization Broad-line Widths and Implications for Virial Black Hole Mass Estimation*, ApJ, 882, 4, 2019

3: Shen, Y., Hall, P., Horne, K. et al. 2019, *The Sloan Digital Sky Survey Reverberation Mapping Project: Sample Characterization*, ApJ, 241, 34, 2019

2: Shen, Y., Hall, P., Horne, K. et al. 2018 *The Sloan Digital Sky Survey Reverberation Mapping Project: Sample Characterization*, ApJS, 241, 34, 2019

1: Grier, C. J., Trump, R. J., Shen, Y. et al. 2017 *The Sloan Digital Sky Survey Reverberation Mapping Project: Hα and Hβ reverberation measurements from first-year spectroscopy and photometry*, ApJ 851, 21.

Selected Service

Fall2019: Reviewer for MNRAS Journal

Fall 2018: Treasurer of the Woman in Physics Group, University of Connecticut

Fall 2017: Organizer of UConn Astronomy Journal Club

Fall 2017: Vice President of Iranian Cultural Organization of UConn

Fall 16 - Spring 17: Event Coordinator of Iraninan Cultural Organization of UConn

2012 - 2014: Member of the Physics Society of Iran

2002 - 2005: Member of Iranian Young Physicist Association

Outreach

Fall 2018: Panelist for the “Woman in Workplace", by Political and Proud community

Spring 2018: Connecticut Science Olympiad Judge

Fall 2017: Guest lecturer at East Lyme Highschool on Black hole physics, East Lyme, Connecticut

Summer 2017: Eclipse day at Talcott Mountain Observatory, Avon, Connecticut

Spring 2017: Connecticut Science Olympiad Judge

Summer 2016: Summer Workshop KASET: Kids are Scientist & Engineers Too University of Connecticut

Conferences & Workshops

July 2020: *2020 Summer All-Zoom Epoch of Reionization Astronomy Conference (SAZERAC), LSST and the Mass Census of Supermassive Black Holes at Cosmic Dawn*, Remote Conference, **Poster Presentation**

June 2020: *2020 SDSS Collaboration Meeting*, *MgII Reverberation Mapping Results from multi-years of SDSS-RM*, New York (Remote), United States, **Oral Presentation**

Oct 2019: *2019 Accretion Hostory of AGNs*, *SDSS-RM and the Future of Industrial-Scale Reverberation Mapping*, Miami, United States, **Oral Presentation**

Sep 2019: *2019 Mapping Central regions of Black Holes*, *Mapping Supermassive Black Hole Accretion Disks with SDSS-RM*, Guilin, China **Oral Presentation**

June 2019: *2019 SDSS Collaboration Meeting*, *Mapping the Growth of Supermassive Black Holes*, Ensenada, Mexico, **Poster Presentation**

June 2018: *2018 AstroFrontiers Meeting*, *Mapping the Growth of Supermassive Black Holes* Portland, United States, **Poster Presentation**

May 2018: *2018 Galaxy Formation and Compact Objects Meeting*, *Accretion disk sizes from Continuum Reverberation Mapping*, Center for Computational Astrophysics, New York, United States, **Poster Presentation**

May 2018: *2018 NERQUAM Meeting*, *Mapping the Growth of Supermassive Black Holes* Yale University, New Haven, United States, **Oral Presentation**

Nov 2017: *PyData NYC 2017 Workshop*, Microsoft, New York City, New York, United States

May 2017: *2017 NERQUAM Meeting*, *Light Echoes of Black Hole Growth* Boston University, Boston, United States, **Poster Presentation**

Aug 2016: *SciCoder-8 2016 Workshop*, Yale University, New Haven, Connecticut, United States