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Personal Information

Citizenship: United States of America (of Armenian descent).

Languages: Armenian (native), English (fluent), Arabic (fluent), Turkish (conversational).

Education

- Ph.D. in Physics, University of Kentucky, USA, 2003, GPA 4.0
 - Thesis Title: Sensitive Very Long Baseline Interferometry Studies of Interacting/Merging Galaxies.
 - Thesis advisers: Dr. Thomas H. Troland (U. Kentucky), Dr. Jonathan D. Romney (NRAO).
- M.S. in Physics, University of Kentucky, 2001, GPA 4.0
- Post Graduate Diploma in Physics (Solid State-Electronics), University of Aleppo, Syria, 1997.
- B.Sc. in Physics and Chemistry (double major), University of Aleppo, Syria, 1996.

Research Interests

- High redshift quasars and starburst galaxies.
- Luminous and Ultra-luminous IR galaxies, and Megamaser galaxies.
- Extragalactic H I, OH, and other spectral lines.
- Star forming regions and magnetic fields (through Zeeman Splitting).
- Radio observational techniques (Single dish, Multi-beam feed arrays, Radio Interferometry (VLA, GMRT, WSRT, MERLIN, MeerKAT), Very Long Baseline Interferometry (VLBI; VLBA, HSA, EVN, Global); radio continuum, spectroscopy, polarimetry, spectropolarimetry).

Research appointments

- March 2014 – current: Scientist/A, NRAO.
- Jan. 2011– March 2014: Associate Scientist/A, NRAO.
- Oct. 2007 – Dec. 2010: Assistant Scientist/A, NRAO.
- Dec. 2005 – Oct. 2007: Research Associate, Arecibo Observatory, NAIC/Cornell U.
- Oct. 2003 – Nov. 2005: Post-Doctoral Research Associate, Arecibo Obs., NAIC/Cornell U.
- 2000 – 2003: NRAO Pre-Doctoral Associate.
- Summer 2000: NRAO Summer Student.
- Summer 1999: Summer Research Assistantship, NRAO.
- Summer 1998: Summer Research Assistantship, U. Kentucky.

Teaching appointments

- Spring 1998 – Summer 2000: Graduate Teaching Assistant for Introductory Astronomy, U. Kentucky.

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- Fall 1997: Physics instructor, Armenian Karen Jeppe College, Aleppo, Syria.
- Fall 1996 – Spring 1997: Lecturer and physics lab instructor, University of Aleppo, Syria.

Academic Awards & Fellowships

- 2000 – 2003: NRAO Pre-Doctoral Research Assistantship.
- 1996: Martyr Bassel Al-Assad Presidential Award for Superior Graduates, U. Aleppo, Syria.
- 1994: Martyr Bassel Al-Assad Presidential Award for Superior Students, U. Aleppo, Syria.

Membership in Professional Organizations

- 2001 – current: American Astronomical Society
- 2006 – current: International Astronomical Union

Professional Activities/Appointments

- August 2020 – *current*: VLA/VLBA Science Support Division Head
- March 2020 – July 2020: VLA/VLBA Science Support Division Head (interim)
- January 2015 – November 2020: VLA/VLBA Scientific User Support Group Lead
- 2015 – 2017: Member, Arecibo Observatory Users Committee
- 2013 – 2015: VLA Pipeline Operations Scientist
- 2011 – *current*: Member, the NRAO RSRO/ECSO Committee
- 2010 – 2012: Member, NRAO Library Advisory Committee
- 2007 – *current*: EVLA/VLA/VLBA Scientific and User Support
- 2007 – *current*: Expanded Very Large Array Commissioning and testing
- 2006 – *current*: referee - ApJ, AJ, MNRAS, A&A, ANSEF, GMRT proposals, LMT proposals
- 2006 – 2007: The representative of the Extragalactic Arecibo L-Band Feed Array (E-ALFA) surveys at NAIC-Arecibo Observatory
- 2006: Member, the Arecibo Observatory Director Search Committee
- 2005 – 2013: Member, the Oversight Committee of the ALFALFA (Arecibo Legacy Fast ALFA) Survey
- 2003 – 2007: Member of the VLBI and eVLBI operations team of the Arecibo Observatory
- 2003 – 2007: Web master of the astronomy pages of the Arecibo Observatory
- 2003 – 2007: Friend of the C-High (6-8 GHz) receiver of the Arecibo radio Telescope

Organization of Meetings and Conferences

- 2022: Co-organizer, *The 18th NRAO Synthesis Imaging Workshop*, Socorro, NM
- 2021: Co-organizer (chair), *The 8th VLA Data Reduction Workshop (virtual)*, Socorro, NM
- 2021: Organizer, *Virtual NRAO Community Day*
- 2020: Organizer, *Virtual NRAO Community Day*
- 2020: Organizer, *NRAO Community Days at the University of Guanajuato*, Mexico (postponed/canceled due to the pandemic)
- 2020: Organizer, *NRAO Community Days at DRAO*, Canada (postponed/canceled due to the pandemic)
- 2020: Organizer, *NRAO Community Days at NAOJ*, Japan (postponed/canceled due to the pandemic)
- 2020: Co-organizer, *The 17th NRAO Synthesis Imaging Workshop*, Socorro, NM
- 2019: Organizer, *The 7th VLA Data Reduction Workshop*, Socorro, NM
- 2019: Organizer, *The NRAO Community Days at UMBC*, Baltimore, MD
- 2019: Organizer, *The NRAO Community Days at Texas Tech*, Lubbock, TX
- 2018: Organizer, *The NRAO/LBO Community Days at INAOE*, Puebla, Mexico

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- 2018: Organizer, *The NRAO/LBO Community Days at University of Toronto*, Canada
- 2018: Co-organizer, *The 16th NRAO Synthesis Imaging Workshop*, Socorro, NM
- 2018: Organizer, *The NRAO/LBO Community Days at Caltech*, Pasadena, CA
- 2017: Organizer, *The 6th VLA Data Reduction Workshop*, Socorro, NM
- 2017: Organizer, *The NRAO/LBO/GBO Community Days at Cornell U.*, Ithaca, NY
- 2017: Organizer, *The NRAO/LBO Community Days at UNAM*, Morelia, Mexico
- 2017: Organizer, *The NRAO/LBO Community Day at U. Michigan*, Ann Arbor, MI
- 2016: Co-organizer, *The 5th VLA Data Reduction Workshop*, Socorro, NM
- 2016: Co-organizer, *The 15th NRAO Synthesis Imaging Workshop*, Socorro, NM
- 2014: Organizer, *VLA Community Day at Yonsei University*, Seoul, S. Korea
- 2013: Co-organizer, *VLA Community Day at U. Guanajuato*, Mexico
- 2013: Co-organizer, *VLA Community Day at UNAM*, Morelia, Mexico
- 2012: Co-organizer, *ASIAA Workshop on The Karl G. Jansky Very Large Array*, Taiwan
- 2011: Co-organizer, *Radio Astronomy & The ISM*, Durango, CO
- 2008: Co-organizer, *The Evolution of Galaxies through the Neutral Hydrogen Window*, Arecibo, PR
- 2006: Co-organizer, *Building the Foundation for U.S. Astronomy at m/cm Wavelengths in 2010 and Beyond*, Tuscon, AZ
- 2005: Co-organizer, *Third NAIC-NRAO Single Dish Summer School*, Arecibo Observatory, Arecibo, PR
- 2004: Co-organizer, *Diffuse Matter in the Galaxy: Observations Confront Theory*, Arecibo Observatory, Arecibo, PR

Student Supervision and Dissertation Committees

- 2020 – *current*: Member of the Ph.D. committee of Ms. T. Rodriguez (NMT).
- 2020: Supervisor of the NRAO Summer student, Ms. N. Wenner.
- 2017 – 2020: Supervisor of the NRAO Reber fellow/UNM student, Ms. M. Sanchez (UNM).
- 2017: Supervisor of the NRAO Summer student, Ms. A. Moore.
- 2016: Supervisor of the NRAO Summer student, Mr. J. Potvin.
- 2016: Co-Supervisor of the NRAO Summer student, Mr. K. Garimella.
- 2015: Member of the M.Sc. Dissertation Committee of Ms. I. Bautista at U. Guanajuato.
- 2014: Co-Supervisor of the NRAO Summer student, Ms. G. Johnson.
- 2014: Supervisor of the NRAO Summer graduate student, Mr. H. Gim.
- 2014: Supervisor of the NRAO Summer student, Ms. J. Gross.
- 2012: Co-Supervisor of the Carnegie Observatories Summer student, Mr. D. Z. Dong.
- 2012: Co-Supervisor of the NRAO Summer graduate student, Ms. L. K. Morabito.
- 2011: Supervisor of the NRAO Summer graduate student, Mr. S. Merriman.
- 2010: University of Maryland Special Graduate Faculty member, and a member of the Ph.D. Dissertation Committee of Ms. B. A. Zauderer.
- 2010: Supervisor of the NRAO Summer graduate student, Mr. M. Rickert.
- 2009: Supervisor of the NRAO Summer graduate student, Ms. M. Pastorius.
- 2007: Co-Supervisor of the NAIC, Arecibo Observatory Summer student, Ms. R. Lamm.
- 2006: Co-Supervisor of the NAIC, Arecibo Observatory Summer student, Ms. X. M. Fernandez.
- 2005: Supervisor of the NAIC, Arecibo Observatory Summer student, Ms. F. M. Day.

Book Authorship

- *The Evolution of Galaxies Through the Neutral Hydrogen Window*, eds. R. Minchin & E. Momjian, 2008, AIP Conference Proceedings Series, Vol. 1035.

Refereed Publications

1. 'Discovery of a damped Ly α absorber originating in a spectacular interacting dwarf galaxy pair at $z=0.026$ ' Boettcher, E., Gupta, N., Chen, H-W, Chen, M. C., Józsa, G. I. G., Rudie, G. C., Cantalupo, S., Johnson, S. D., Balashev, S. A., Combes, F., Cooksey, K. L., Faucher-Giguère, C-A, Krogager, J-K, Lopez, S., **Momjian, E.**, Noterdaeme, P., Petitjean, P., Rafelski, M., Srianand, R., Walth, G. L., Zahedy, F. S. (2022), ApJL accepted.
2. 'The radio spectral turnover of radio-loud quasars at $z > 5$ ' Shao, Y., Wagg, J., Wang, R., **Momjian, E.**, Carilli, C. L., Walter, F., Riechers, D. A., Intema, H. T., Weiss, A., Brunthaler, A., & Menten, K. M. (2021), A&A accepted.
3. 'MALS SALT-NOT survey of MIR-selected powerful radio-bright AGN at $0 < z < 5$ ' Gupta, N., Shukla, G., Srianand, R., Krogager, J.-K., Noterdaeme, P., Baker, A. J., Combes, F., Fynbo, J. P. U., **Momjian, E.**, Hilton, M., Hussain, T., Moodley, K., Petitjean, P., Chen, H. -W., Deka, P., Dutta, R., Jose, J., Jozsa, G. I. G., Kaski, C., Klockner, H. -R. Knowles, K., Sikhosana, S., Wagnenveld, J. (2021), ApJ accepted.
4. 'CHILES VII: Deep Imaging for the CHILES project, a SKA prototype' Dodson, R., **Momjian, E.**, Pisano, D. J., Lubert, N., Blue Bird, J., Rozgonyi, K., Smith, E. T., van Gorkom, J. H., Lucero, D., Hess, K. M., Yun, M., Rhee, J., van der Hulst, J. M., Vinsen, K., Meyer, M., Fernandez, X., Gim, H. B., Popping, A., & Wilcots, E. (2022), AJ, 163, 59.
5. 'DIISC-II: Unveiling the Connections between Star Formation and Interstellar Medium in the Extended Ultraviolet Disk of NGC 3344' Padave, M., Borthakur, S., Gim, H. B., Jansen, R. A., Thilker, D., Heckman, T., Kennicutt, R. C., **Momjian, E.**, & Fox, A. J. (2021), ApJ, 923, 199.
6. 'CHILES VERDES: Radio Variability at an Unprecedented Depth and Cadence in the COSMOS Field' Sarbadhicary, S. K., Tremou, E., Stewart, A. J., Chomiuk, L., Peters, C., Hales, C., Strader, J., **Momjian, E.**, Fender, R., & Wilcots, E. M. (2021), ApJ, 923, 31.
7. 'DIISC-I: The Discovery of Kinematically Anomalous H I Clouds in M 100' Gim, H. B., Borthakur, S., **Momjian, E.**, Padave, M., Jansen, R. A., Nelson, D., Heckman, T. M., Kennicutt, R. C., Fox, A. J., Pineda, J. L., Thilker, D., Kauffmann, G., & Tumlinson, J. (2021), ApJ, 922, 69.
8. 'The Impact of Powerful Jets on the Far-infrared Emission of an Extreme Radio Quasar at $z \sim 6$ ' Rojas-Ruiz, S., Bañados, E., Neeleman, M., Connor, T., Eilers, A.-C., Venemans, B. P., Khusanova, Y., Carilli, C., Mazzucchelli, C., Decarli, R., Momjian, E., & Novak, M. (2021), ApJ, 920, 150.
9. 'Discovery of methanimine (CH₂NH) megamasers toward compact obscured galaxy nuclei' Gorski, M. D., Aalto, S., Mangum, J., **Momjian, E.**, Black, J. H., Falstad, N., Gullberg, B., König, S., Onishi, K., Sato, M., & Stanley, F. (2021), A&A, 654, A110.
10. 'Evolution of Cold Gas at $2 < z < 5$: A Blind Search for H I and OH Absorption Lines toward Mid-infrared Color-selected Radio-loud AGN' Gupta, N., Srianand, R., Shukla, G., Krogager, J.-K.,

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- Noterdaeme, P., Combes, F., Dutta, R., Fynbo, J. P. U., Hilton, M., **Momjian, E.**, Moodley, K., & Petitjean, P. (2021), *ApJS*, 255, 28.
11. 'A Comparison between Nuclear Ring Star Formation in LIRGs and in Normal Galaxies with the Very Large Array' Song, Y., Linden, S. T., Evans, A. S., Barcos-Muñoz, L., Privon, G. C., Yoon, I., Murphy, E. J., Larson, K. L., Díaz-Santos, T., Armus, L., Mazzarella, J. M., Howell, J., Inami, H., Torres-Albà, N., U, V., Charmandaris, V., McKinney, J., Kunneriath, D., & **Momjian, E.** (2021), *ApJ*, 916, 73.
 12. 'Resolving the Radio Emission from the Quasar P172+18 at $z = 6.82$ ' **Momjian, E.**, Bañados, E., Carilli, C. L., Walter, F., & Mazzucchelli, C. (2021), *AJ*, 161, 207.
 13. 'Enhanced X-Ray Emission from the Most Radio-powerful Quasar in the Universe's First Billion Years' Connor, T., Bañados, E., Stern, D., Carilli, C., Fabian, A., **Momjian, E.**, Rojas-Ruiz, S., Decarli, R., Farina, E. P., Mazzucchelli, C., & Earnshaw, H. P. (2021), *ApJ*, 911, 120.
 14. 'The VLA Frontier Field Survey: A Comparison of the Radio and UV/Optical Size of $0.3 \lesssim z \lesssim 3$ Star-forming Galaxies' Jiménez-Andrade, E. F., Murphy, E. J., Heywood, I., Smail, I., Penner, K., **Momjian, E.**, Dickinson, M., Armus, L., & Lazio, T. J. W. (2021), *ApJ*, 910, 106.
 15. 'The VLA Frontier Fields Survey: Deep, High-resolution Radio Imaging of the MACS Lensing Clusters at 3 and 6 GHz' Heywood, I., Murphy, E. J., Jiménez-Andrade, E. F., Armus, L., Cotton, W. D., DeCoursey, C., Dickinson, M., Lazio, T. J. W., **Momjian, E.**, Penner, K., Smail, I., & Smirnov, O. M. (2021), *ApJ*, 910, 105.
 16. 'PKS 1830-211: OH and H I at $z = 0.89$ and the first MeerKAT UHF spectrum' Combes, F., Gupta, N., Muller, S., Balashev, S., Józsa, G. I. G., Srianand, R., **Momjian, E.**, Noterdaeme, P., Klöckner, H.-R., Baker, A. J., Boettcher, E., Bosma, A., Chen, H.-W., Dutta, R., Jagannathan, P., Jose, J., Knowles, K., Krogager, J.-K., Kulkarni, V. P., Moodley, K., Pandey, S., Petitjean, P., & Sekhar, S. (2021), *A&A*, 648, A116.
 17. 'The Discovery of a Highly Accreting, Radio-loud Quasar at $z = 6.82$ ' Bañados, E., Mazzucchelli, C., **Momjian, E.**, Eilers, A.-C., Wang, F., Schindler, J.-T., Connor, T., Andika, I. T., Barth, A. J., Carilli, C., Davies, F. B., Decarli, R., Fan, X., Farina, E. P., Hennawi, J. F., Pensabene, A., Stern, D., Venemans, B. P., Wenzl, L., & Yang, J. (2021), *ApJ*, 909, 80.
 18. 'Constraining the Quasar Radio-loud Fraction at $z \sim 6$ with Deep Radio Observations' Liu, Y., Wang, R., **Momjian, E.**, Bañados, E., Zeimann, G., Willott, C. J., Matsuoka, Y., Omont, A., Shao, Y., Li, Q., & Li, J. (2021), *ApJ*, 908, 124.
 19. 'Blind H I and OH Absorption Line Search: First Results with MALS and uGMRT Processed Using ARTIP' Gupta, N., Jagannathan, P., Srianand, R., Bhatnagar, S., Noterdaeme, P., Combes, F., Petitjean, P., Jose, J., Pandey, S., Kaski, C., Baker, A. J., Balashev, S. A., Boettcher, E., Chen, H.-W., Cress, C., Dutta, R., Goedhart, S., Heald, G., Józsa, G. I. G., Kamau, E., Kamphuis, P., Kerp, J., Klöckner, H.-R., Knowles, K., Krishnan, V., Krogager, J.-K., Kulkarni, V. P., **Momjian, E.**, Moodley, K., Passmoor, S., Schröeder, A., Sekhar, S., Sikhosana, S., Wagnveld, J., & Wong, O. I. (2021), *ApJ*, 907, 11.
 20. 'Where's the Dust? The Deepening Anomaly of Microwave Emission in NGC 4725 B' Murphy, E. J., Hensley, B. S., Linden, S. T., Draine, B. T., Dong, D., **Momjian, E.**, Helou, G., & Evans, A. S. (2020), *ApJL*, 905, L23.

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21. 'Dual AGN Candidates with Double-peaked [O III] Lines Matching that of Confirmed Dual AGNs' Kim, D.-C., Yoon, I., Evans, A. S., Kim, M., **Momjian, E.**, & Kim, J. H. (2020), ApJ, 904, 23.
22. 'Early Science from GOTHAM: Project Overview, Methods, and the Detection of Interstellar Propargyl Cyanide (HCCCH₂CN) in TMC-1' McGuire, B. A., Burkhardt, A. M., Loomis, R. A., Shingledecker, C. N., Kelvin Lee, K. L., Charnley, S. B., Cordiner, M. A., Herbst, E., Kalenskii, S., **Momjian, E.**, Willis, E. R., Xue, C., Remijan, A. J., & McCarthy, M. C. (2020), ApJL, 900, L10.
23. 'The Star Formation in Radio Survey: 3 – 33 GHz Imaging of Nearby Galaxy Nuclei and Extranuclear Star-forming Regions' Linden, S. T., Murphy, E. J., Dong, D., **Momjian, E.**, Kennicutt, R. C., Meier, D. S., Schinnerer, E., & Turner, J. L. (2020), ApJS 248, 25.
24. 'CHILES VI: H I and H α observations for $z < 0.1$ galaxies; probing H I spin alignment with filaments in the cosmic web' Blue Bird, J., Davis, J., Luber, N., van Gorkom, J. H., Wilcots, E., Pisano, D. J., Gim, H. B., **Momjian, E.**, Fernandez, X., Hess, K. M., Lucero, D., Dodson, R., Vinsen, K., Popping, A., Chung, A., Kreckel, K., van der Hulst, J. M., & Yun, M. (2020), MNRAS, 492, 153.
25. 'A Curious Case of Circular Polarization in the 25 GHz Methanol Maser Line toward OMC-1' Sarma, A. P., & **Momjian, E.** (2020), ApJ, 890, 6.
26. 'The Arecibo L-band Feed Array Zone of Avoidance (ALFAZOA) Shallow Survey' Sanchez-Barrantes, M., Henning, P. A., McIntyre, T., **Momjian, E.**, Minchin, R., Rosenberg, J. L., Schneider, S., Staveley-Smith, L., van Driel, W., Ramatsoku, M., Butcher, Z., & Vaez, E. (2019), AJ, 158, 234.
27. 'A Dual Black Hole Associated with Obscured and Unobscured AGNs: CXO J101527.2+625911' Kim, D.-C., **Momjian, E.**, Yoon, I., Kim, M., Evans, A. S., Kim, J. H., Linden, S. T., Barcos-Munoz, L., & Privon, G. C. (2019), ApJ, 882, 149.
28. 'A Very Large Array Survey of Luminous Extranuclear Star-forming Regions in Luminous Infrared Galaxies in GOALS' Linden, S. T., Song, Y., Evans, A. S., Murphy, E. J., Armus, L., Barcos-Muñoz, L., Larson, K., Díaz-Santos, T., Privon, G. C., Howell, J., Surace, J. A., Charmandaris, V., U, V., Medling, A. M., Chu, J., & **Momjian, E.** (2019), ApJ, 881, 70.
29. 'Far-infrared Properties of the Bright, Gravitationally Lensed Quasar J0439+1634 at $z = 6.5$ ' Yang, J., Venemans, B., Wang, F., Fan, X., Novak, M., Decarli, R., Walter, F., Yue, M., **Momjian, E.**, Keeton, C. R., Wang, R., Zabludoff, A., Wu, X.-B., & Bian, F. (2019), ApJ, 880, 153.
30. 'Large-scale Structure in CHILES Using DisPerSE' Luber, N., van Gorkom, J. H., Hess, K. M., Pisano, D. J., Fernández, X., & **Momjian, E.** (2019), AJ, 157, 254.
31. 'Dense gas is not enough: environmental variations in the star formation efficiency of dense molecular gas at 100 pc scales in M 51' Querejeta, M., Schinnerer, E., Schrubba, A., Murphy, E., Meidt, S., Usero, A., Leroy, A. K., Pety, J., Bigiel, F., Chevance, M., Faesi, C. M., Gallagher, M., García-Burillo, S., Glover, S. C. O., Hygate, A. P. S., Jiménez-Donaire, M. J., Kruijssen, J. M. D., **Momjian, E.**, Rosolowsky, E., & Utomo, D. (2019), A&A, 625, A19.
32. 'CHILES: H I morphology and galaxy environment at $z = 0.12$ and $z = 0.17$ ' Hess, K. M., Luber, N. M., Fernández, X., Gim, H. B., van Gorkom, J. H., **Momjian, E.**, Gross, J., Meyer, M., Popping, A., Davies, L. J. M., Hunt, L., Kreckel, K., Lucero, D., Pisano, D. J., Sanchez-Barrantes, M., Yun, M. S., Dodson, R., Vinsen, K., Wicenc, A., Wu, C., Bershad, M. A., Chung, A., Davis, J. D., Donovan Meyer, J., Henning, P., Maddox, N., Smith, E. T., van der Hulst, J. M., Verheijen, M. A. W., & Wilcots, E. M. (2019), MNRAS, 484, 2234.

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33. '*Nature of Faint Radio Sources in GOODS-North and GOODS-South Fields. I. Spectral Index and Radio-FIR Correlation*' Gim, H. B., Yun, M. S., Owen, F. N., **Momjian, E.**, Miller, N. A., Gialalisco, M., Wilson, G., Lowenthal, J. D., Aretxaga, I., Hughes, D. H., Morrison, G. E., & Kawabe, R. (2019), ApJ, 875, 80.
34. '*Diagnostics of a nuclear starburst: water and methanol masers*' Gorski, M. D., Ott, J., Rand, R., Meier, D. S., **Momjian, E.**, Schinnerer, E., & Ellingsen, S. P. (2019), MNRAS, 483, 5434.
35. '*Discovery of CO absorption at $z = 0.05$ in G0248+430*' Combes, F., Gupta, N., Jozsa, G. I. G., & **Momjian, E.** (2019), A&A, 623, A133.
36. '*The Zeeman Effect in the 44 GHz Class I Methanol (CH_3OH) Maser Line toward DR21W*' **Momjian, E.**, & Sarma, A. P. (2019), ApJ, 872, 12.
37. '*Discovery of a Damped Ly α System in a Low- z Galaxy Group: Possible Evidence for Gas Inflow and Nuclear Star Formation*' Borthakur, S., **Momjian, E.**, Heckman, T. M., Catinella, B., Vogt, F. P. A., & Tumlinson, J. (2019), ApJ, 871, 239.
38. '*VLBA+GBT observations of the COSMOS field and radio source counts at 1.4 GHz*' Herrera Ruiz, N., Middelberg, E., Deller, A., Smolčić, V., Norris, R. P., Novak, M., Delvecchio, I., Best, P. N., Schinnerer, E., **Momjian, E.**, Dettmar, R.-J., Bricken, W., Koekemoer, A. M., & Scoville, N. Z. (2018), A&A, 616, A128.
39. '*The first VLBI detection of a spiral DRAGN core*' Mao, M. Y., Blanchard, J. M., Owen, F., Sjouwerman, L. O., Singh, V., Scaife, A., Paragi, Z., Norris, R. P., **Momjian, E.**, Johnson, G., & Browne, I. (2018), MNRAS, 478, L99.
40. '*A New Detection of Extragalactic Anomalous Microwave Emission in a Compact, Optically Faint Region of NGC 4725*' Murphy, E. J., Linden, S. T., Dong, D., Hensley, B. S., **Momjian, E.**, Helou, G., & Evans, A. S. (2018), ApJ, 862, 20.
41. '*A Powerful Radio-loud Quasar at the End of Cosmic Reionization*' Bañados, E., Carilli, C., Walter, F., **Momjian, E.**, Decarli, R., Farina, E. P., Mazzucchelli, C., & Venemans, B. P. (2018), ApJL, 861, L14.
42. '*Resolving the Powerful Radio-loud Quasar at $z \sim 6$* ' **Momjian, E.**, Carilli, C. L., Bañados, E., Walter, F., & Venemans, B. P. (2018), ApJ, 861, 86.
43. '*Discovery of OH Absorption from a Galaxy at $z \sim 0.05$: Implications for Large Surveys with SKA Pathfinders*' Gupta, N., **Momjian, E.**, Srianand, R., Petitjean, P., Noterdaeme, P., Gyanchandani, D., Sharma, R., & Kulkarni, S. (2018), ApJL, 860, L22.
44. '*Survey of Water and Ammonia in Nearby Galaxies (SWAN): Resolved Ammonia Thermometry and Water and Methanol Masers in IC 342, NGC 6946, and NGC 2146*' Gorski, M., Ott, J., Rand, R., Meier, D. S., **Momjian, E.**, & Schinnerer, E. (2018), ApJ, 856, 134.
45. '*The Star Formation in Radio Survey: Jansky Very Large Array 33 GHz Observations of Nearby Galaxy Nuclei and Extranuclear Star-forming Regions*' Murphy, E. J., Dong, D., **Momjian, E.**, Linden, S., Kennicutt, R. C., Meier, D. S., Schinnerer, E., & Turner, J. L. (2018), ApJS, 234, 24.

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9. 'Comparison of the Performance of the 3-bit and 8-bit Samplers at C (4-8 GHz), X (8-12 GHz) and Ku (12-18 GHz) Bands' **Momjian, E.**, Perley, R. (2013).
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- "Adaptive optics and VLBA imaging observations of recoiling supermassive black hole candidates" D.-C. Kim, Minjin Kim, Ilsang Yoon, **E. Momjian**, Ji Hoon, Kim, and A. S. Evans (2011). Submitted to MNRAS.
- "Long-term variability of Class I methanol masers in the high mass star forming region DR21(OH)" Nycole Wenner, A. P. Sarma, and **E. Momjian**, Submitted to ApJ.
- "Magnetic field estimation in TMC-1C using 22.3 GHz CCS Zeeman measurement: Hints of ambipolar diffusion driven collapse" Atanu Koley, Nirupam Roy, **Emmanuel Momjian**, Anuj P. Sarma, and Abhirup Datta, Submitted to ApJ.
- "Exploring the radio spectral energy distribution of the ultraluminous radio-quiet quasar SDSS J0100+2802 at redshift 6.3" Yuanqi Liu, Ran Wang, **Emmanuel Momjian**, Jeff Wagg, Xiaolong Yang, Tao An, Yali Shao, Chris L. Carilli, Xuebing Wu, Xiaohui Fan, Fabian Walter, Linhua Jiang, Qiong Li, Jianan Li, Qinyue Fei, and Fuxiang Xu1, Submitted to ApJ.
- "HI gas playing hide-and-seek around a powerful FRI-type quasar at $z \sim 2.1$ " N. Gupta, R. Srianand, **E. Momjian**, G. Shukla, F. Combes, J.-K. Krogager, P. Noterdaeme, and P. Petitjean, Submitted to ApJL.
- " Ω_{bar} in NGC 5597 from VLA H I 21 cm Observations" J. Antonio Garcia-Barreto & **Emmanuel Momjian**, Submitted to AJ.

Press Releases

- Most Distant Cosmic Jet Providing Clues About Early Universe (2021) <https://public.nrao.edu/news/distant-cosmic-jet/>
- Scientists uncover warehouse-full of complex molecules never before seen in space (2021) <https://greenbankobservatory.org/scientists-uncover-warehouse-full-of-complex-molecules-never-before-seen-in-space/>
- Gigantic Jet Spied From Black Hole in Early Universe (2021) https://chandra.si.edu/press/21_releases/press_030921.html
- Distant Quasar Providing Clues to Early-Universe Conditions (2018) <https://public.nrao.edu/news/distant-quasar-early-universe/>
- New Observational Distance Record Promises Important Tool for Studying Galaxies (2016) <https://public.nrao.edu/news/hydrogen-distance-record/>
- Strange Galaxy Perplexes Astronomers <https://public.nrao.edu/news/strange-galaxy-perplexes-astronomers/>
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- NRAO Astronomer, Wife Become U.S. Citizens at VLA Ceremony <https://www.nrao.edu/pr/2011/citizens/>
- Arecibo telescope finds critical ingredients for the soup of life in a galaxy far, far away (2008) <https://news.cornell.edu/stories/2008/01/distant-galaxy-holds-key-ingredients-life-astronomers-report>
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- "Preliminary results from prebiotic molecules with ALMA in the era of artificial intelligence", Villicana-Pedraza, I., Walterbos, R., Carreto-Parra, F., Ott, J., Momjian, E., Thelen, A., Ginsburg,

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- “The Impact of Arecibo's Sensitivity on VLBA Observations” Day, F. M., & Momjian, E., American Astronomical Society Meeting 207, 29.07 (2005).
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- “Complex Structure in the ALFALFA HI Distribution around VirgoHI21” Haynes, M. P., Giovanelli, R., Kent, B. R., Saintonge, A., Stierwalt, S., Catinella, B., Momjian, E., Hoffman, G. L., Rosenberg, J. R., Brosch, N., Davies, J. I., & Minchin, R. L., American Astronomical Society Meeting 207, 179.23 (2005).
- “ALFALFA Discovery of an HI Cloud Complex in the Virgo Cluster: Aperture Synthesis Observations” Spekkens, K., Momjian, E., Kent, B. R., Giovanelli, R., Haynes, M. P., Catinella, B., Stierwalt, S., Saintonge, A., American Astronomical Society Meeting 207, 179.25 (2005).
- “ALFALFA Discovery of an HI Cloud Complex in the Virgo Cluster” Giovanelli, R., Haynes, M. P., Kent, B., Saintonge, A., Stierwalt, S., Brosch, N., Hoffman, L. G., Rosenberg, J., Catinella, B., & Momjian, E., American Astronomical Society Meeting 207, 179.22 (2005).
- “ALFALFA Survey of the Leo Region” Stierwalt, S., Haynes, M. P., Giovanelli, R., Kent, B., Saintonge, A., Karachentsev, I. D., Karachentseva, V. E., Brosch, N., Catinella, B., Hoffman, L., & Momjian, E., American Astronomical Society Meeting 207, 187.03 (2005).
- “A Signal Extraction Utility for the ALFALFA Survey” Saintonge, A., Giovanelli, R., Haynes, M. P., Kent, B. R., Stierwalt, S., Brosch, N., Catinella, B., & Momjian, E., American Astronomical Society Meeting 207, 187.02 (2005).
- “Interferometry and Synthesis Imaging in Radio Astronomy” Momjian, E., REU lecture, Arecibo Observatory, Arecibo, PR, July 6, 2005.
- “Gaseous Evolution in Galaxies: The Arecibo Ultra-Deep Survey (AUDS)” L. Staveley-

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- “eVLBI observations with the 305 m Arecibo Radio Telescope” Momjian, E., Ghosh, T., Salter, C. J., Venkataraman, A., American Astronomical Society Meeting 205, 153.10 (2004).
- “Neutral Hydrogen in the Galaxy Cluster, Abell 2390” Zahid, J., DeCesar, M., Kinnaman, L., Rice, M., Saucedo-McQuade, K., Ghosh, T., Momjian, E., Salter, C. J., American Astronomical Society Meeting 205, 147.20 (2004).
- “H I and Metal Line Absorption in NGC 3067 Toward the Background Quasar 3C 232” Stocke, J. T., Keeney, B. A., Momjian, E., Carilli, C. L., American Astronomical Society Meeting 204, 79.03 (2004).
- “Sensitive VLBI observations of the $z = 4.7$ QSO BRI 1202–0725” Momjian, E., Carilli, C. L., Petric, A. O., American Astronomical Society Meeting 204, 60.14 (2004).
- “Interferometry in Radio Astronomy” Momjian, E., REU lecture, Arecibo Observatory, Arecibo, PR, June 21, 2004.
- “VLBA observations of $z > 4$ radio-loud quasars” Momjian, E., Petric, A. O., Carilli, C. L., American Astronomical Society Meeting 203, 78.13 (2003).
- “Sensitive VLBI Observations of Interacting/Merging Galaxies” Momjian, E., 58th Annual American Scientific Affiliation Meeting, July 25-28, 2003, Lakewood, CO, USA.
- “Sensitive VLBI observations of the ULIRG IRAS 17208-0014” Momjian, E., Troland, T. H., Romney, J. D., Carilli, C. L. & Taylor, G. B., *Future Directions in High Resolution Astronomy: The 10th Anniversary of the VLBA*, June 8-12, 2003, Socorro, NM, USA. ASP Conference Proceedings, Vol. 340. Edited by J. Romney and M. Reid. San Francisco: Astronomical Society of the Pacific, 2005., p.232.
- “Probing the innermost regions of luminous and ultra-luminous infrared galaxies: Sensitive VLBI continuum and HI absorption observations of the ULIRG IRAS17208-0014 and the LIRG NGC7674” Momjian, E., American Astronomical Society Meeting 201, 107.05 (2002).
- “Sensitive VLBI observations of the Seyfert-2 NGC 7674: First Science with the combined array VLBA, VLA and ARECIBO” Momjian, E., Romney, J. D., Carilli, C. L., & Troland, T. H., 18th Annual New Mexico Symposium, Nov. 1, 2002, Socorro, NM, USA.
- “VLBI continuum and HI absorption observations of NGC 7674” Momjian, E., Romney, J. D., Carilli, C. L., & Troland, T. H., American Astronomical Society Meeting 200, 45.10 (2002).
- “VLBA observations of the Ultra-Luminous Infrared Galaxy IRAS 17208–0014” Momjian, E., Romney, J. D., Carilli, C. L., & Troland, T. H., American Astronomical Society Meeting 199, 54.02 (2001).
- “Global VLBI observations of the high velocity H I absorption toward NGC 1275” Momjian, E., Romney, J. D., & Troland, T. H., 17th annual New Mexico Symposium, Nov. 9, 2001, Socorro, NM, USA.

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- “Global VLBI observations of the high velocity H I absorption toward 3C84” Momjian, E., Romney, J. D., & Troland, T. H., American Astronomical Society Meeting 198, 96.06 (2001).
- “Discovery of Radio Emission from the Brown Dwarf LP944-20, and Preliminary Results from an Ongoing Survey of Nearby Brown Dwarfs with the VLA” Berger, E., Ball, S., Becker, K.M., Clarke, M., Frail, D. A., Fukuda, T. A., Hoffman, I.M., Mellon, R., Momjian, E., Murphy, N. W., Teng, S. H., Woodruff, T., Zauderer, B. A., & Zavala, R. T., American Astronomical Society Meeting 198, 69.06 (2001).

Invited Talks, Presentations, and Colloquia (likely an incomplete list)

- *‘Milliarcsecond Imaging of the Highest Redshift Radio-Loud Quasars’* at the URSI-USNC meeting, Boulder, CO, January 2019 (invited talk)
- *‘Zeeman Effect Studies with the VLA and Interferometric Calibration in Circular Polarization Observations’* at the Polarimetry in the ALMA era: a new crossroads of astrophysics meeting, Tokyo, Japan, March 2019 (invited talk)
- *‘Measuring Magnetic Fields Through the Zeeman Effect in Class I Methanol Masers’* at New Mexico Tech Physics Department, Socorro, NM, November 10, 2016 (invited colloquium)
- *‘Resolving High Redshift Sources’* at Korea Astronomy and Space Science Institute, Daejeon, S. Korea, March 24, 2014 (invited colloquium)
- *‘Measuring Magnetic Fields Through the Zeeman Effect with the VLA’* at the Department of Astronomy, Yonsei University, Seoul, S. Korea, 20, 2014 (invited colloquium)
- *‘The Zeeman Effect: A Unique Probe of Star Formation’* at the 61st NMR² Meeting, Socorro, NM, October 6, 2012 (invited talk)
- *‘High Redshift QSOs and SMGs: A VLBI Perspective’* at ASIAA, Taipei, Taiwan, September 21, 2012 (invited colloquium)
- *‘Measuring Magnetic Fields in Star Forming Regions through the Zeeman Effect’*, ASIAA Workshop on The Karl G. Jansky Very Large Array, Taipei, Taiwan, September 3-4, 2012 (invited talk)
- *‘The Expanded Very Large Array Project: From the VLA to the JVLA’* at ASTRON, The Netherlands, June 12, 2012 (invited colloquium)
- *“Resolving the Highest Redshift Quasars: The power of VLBI”* Colloquium at NRAO, Socorro, NM, January 23, 2009.
- *‘EVLA Science Below 1200 MHz’* at The EVLA Vision: Galaxies Through Cosmic Time, Socorro, NM, December 16, 2008 (invited talk)
- *‘Highest Redshift Quasars: A VLBI Perspective’* at the Department of Physics and Astronomy, University of New Mexico, Albuquerque, NM, November 24, 2008 (invited talk)

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- '*Highest Redshift Radio-Loud QSOs: A VLBI Perspective*' Science talk for the AUI Visiting Committee, Socorro, NM, April 9, 2008.
- '*EVLA Spectral Line Science Below 1200 MHz*' NRAO Wednesday Lunch talk, Socorro, NM, January 30, 2008.
- '*Very Long Baseline Interferometry with the Arecibo Telescope*' at the Spectrum Users Group Meeting, San Juan, PR, March 29, 2007 (invited talk)
- '*Extragalactic ALFA Surveys*' Summary talk for the NAIC Visiting Committee, Puerto Rico, February 2007
- '*PRAISE: Puerto Rico-Arecibo Instrument for Science and Education*' Presentation on the Fully Steerable Arecibo Radio Telescope for the NAIC Visiting Committee, Puerto Rico, February 2007
- '*Extragalactic ALFA Surveys*' Summary talk for the Arecibo Users and Scientific Advisory Committee, NAIC, Puerto Rico, January 2007
- '*Very Long Baseline Interferometry*' at the 40th Anniversary Celebrations of the Arecibo Observatory, Arecibo, Puerto Rico, November 3, 2003 (invited talk)
- '*Sensitive VLBI studies of Interacting/merging galaxies: Continuum and H I absorption observations of IRAS 17208-0014, NGC 7674, & NGC 1275*' Colloquium at the Astronomy Department, Cornell University, Ithaca, NY, February 2003
- '*Sensitive VLBI studies of Interacting/merging galaxies: Continuum and H I absorption observations of IRAS 17208-0014, NGC 7674, & NGC 1275*' Colloquium at Arecibo Observatory, Arecibo, Puerto Rico, February 2003
- '*How the stars die?!*' Colloquium at the Department of Physics, Faculty of Sciences, University of Aleppo, Aleppo, Syria, Nov. 21, 1995.

Presentations and Tutorials for the Scientific Community (likely an incomplete list)

- '*VLBA*', University of Maryland - Baltimore County NRAO Community Days, June 2019
- '*VLA/VLBA Proposal Preparation*', University of Maryland - Baltimore County NRAO Community Days, June 2019
- '*VLA Observation Preparation Tutorial*', University of Maryland - Baltimore County NRAO Community Days, June 2019
- '*Introduction to CASA*', University of Maryland - Baltimore County NRAO Community Days, June 2019
- '*VLA Pipeline and Data Products*', University of Maryland - Baltimore County NRAO Community Days, June 2019
- '*VLA*', Texas Tech University NRAO Community Days, May 2019
- '*VLA/VLBA Proposal Preparation*', Texas Tech University NRAO Community Days, May 2019
- '*Introduction to CASA*', Texas Tech University NRAO Community Days, May 2019
- '*VLA Pipeline and Data Products*', Texas Tech University NRAO Community Days, May 2019

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- *'The VLA Observation Preparation Tutorial'*, Puebla-INAOE NRAO/LBO Community Days, Mexico, September 2018
- *'Introduction to CASA and Data Structure'*, Puebla-INAOE NRAO/LBO Community Days, Mexico, September 2018
- *'Next Generation VLA (ngVLA)'*, Puebla-INAOE NRAO/LBO Community Days, Mexico, September 2018
- *'VLA'*, University of Toronto NRAO/LBO Community Days, July 2018
- *'VLBA'*, University of Toronto NRAO/LBO Community Days, July 2018
- *'VLA/VLBA Proposal Preparation'*, University of Toronto NRAO/LBO Community Days, July 2018
- *'Next Generation VLA (ngVLA)'*, University of Toronto NRAO/LBO Community Days, July 2018
- *'Introduction to CASA and Data Structure'*, University of Toronto NRAO/LBO Community Days, July 2018
- *'VLA Calibration Pipeline'*, University of Toronto NRAO/LBO Community Days, July 2018
- *'VLBA'*, Caltech NRAO/LBO Community Days, March 2018
- *'The Next Generation VLA (ngVLA)'*, Caltech NRAO/LBO Community Days, March 2018
- *'VLA and VLBA Proposal Preparation'*, Caltech NRAO/LBO Community Days, March 2018
- *'VLA Observation Preparation Tutorial'*, Caltech NRAO/LBO Community Days, March 2018
- *'Introduction to CASA and Data Structure'*, Caltech NRAO/LBO Community Days, March 2018
- *'Spectral Line Data Reduction Tutorial'*, Caltech NRAO/LBO Community Days, March 2018
- *'VLA & The Next Generation VLA (ngVLA)'*, Cornell University NRAO/LBO Community Days, July 2017
- *'Proposal Preparation: VLA and VLBA'*, Cornell University NRAO/LBO Community Days, July 2017
- *'Introduction to the VLA OPT and hands-on Tutorial'*, UNAM Morelia NRAO/LBO Community Days, Mexico, April 2017
- *'Introduction to CASA and Data Structure'*, UNAM Morelia NRAO/LBO Community Days, Mexico, April 2017
- *'The VLA Pipeline and Data Products'*, UNAM Morelia NRAO/LBO Community Days, Mexico, April 2017
- *'Introduction To VLA'*, University of Michigan NRAO/LBO Community Day, March 2017
- *'Introduction To CASA and Data Structure'*, University of Michigan NRAO/LBO Community Day, March 2017
- *'Data Reduction Techniques - Calibration'*, at the 5th VLA Data Reduction Workshop, Socorro, NM, March 2016
- *'The Karl G. Jansky Very Large Array'*, AAS Meeting Splinter Session, Seattle, WA, January 2015
- *'The Very Long Baseline Array'*, AAS Meeting Splinter Session, Seattle, WA, January 2015
- *'Data Reduction Techniques'*, at the 4th VLA Data Reduction Workshop, Socorro, NM, October 2014
- *'VLA OPT Intro and hands-on Tutorial'*, Yonsei University VLA Community Day, Seoul, S. Korea, March 2014

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- *'Intro to CASA and VLA CASA Data Reduction hands-on Tutorial'*, Yonsei University VLA Community Day, Seoul, S. Korea, March 2014
- *'The Very Long Baseline Array'*, AAS Meeting Splinter Session, Indianapolis, IN, June 2013
- *'Data Reduction Techniques'*, at the 3rd VLA Data Reduction Workshop, Socorro, NM, April 2013
- *'The VLA Observation Preparation Tool Tutorial'*, UNAM-Morelia NRAO Community Day, Mexico, February 2013
- *'Introduction to CASA'*, UNAM-Morelia NRAO Community Day, Mexico, February 2013
- *'CASA data reduction tutorial'*, UNAM-Morelia NRAO Community Day, Mexico, February 2013
- *'The VLA Observation Preparation Tool Tutorial'*, University of Guanajuato NRAO Community Day, Mexico, February 2013
- *'Introduction to CASA'*, University of Guanajuato NRAO Community Day, Mexico, February 2013
- *'CASA data reduction tutorial'*, University of Guanajuato NRAO Community Day, Mexico, February 2013
- *'OPT Tutorial'*, at ASIAA Workshop on The Karl G. Jansky Very Large Array, Taiwan, September 2012
- *'CASA Tutorial'*, at ASIAA Workshop on The Karl G. Jansky Very Large Array, Taiwan, September 2012
- *'VLA OPT tutorial'*, ASTRON, the Netherlands, June 2012
- *'Data Reduction Techniques'*, at the 2nd VLA Data Reduction Workshop, Socorro, NM, February 2012
- *'VLBA Overview'*, University of Berkeley NRAO Community Day, January 2012
- *'Introduction to CASA'*, University of Berkeley NRAO Community Day, January 2012
- *'CASA data reduction tutorial'*, University of Berkeley NRAO Community Day, January 2012
- *'The VLBA'*, University of Maryland NRAO Community Day, December 2011
- *'Introduction to CASA'*, University of Maryland NRAO Community Day, December 2011
- *'VLA CASA calibration and imaging tutorial'*, University of Maryland NRAO Community Day, December 2011
- *'Data Reduction Techniques'*, at the 1st VLA Data Reduction Workshop, Socorro, NM, September 2011.
- *'Interferometry and Synthesis Imaging in Radio Astronomy'* REU lecture, Arecibo Observatory, Arecibo, PR, July 2007
- *'Interferometry and Synthesis Imaging in Radio Astronomy'* REU lecture, Arecibo Observatory, Arecibo, PR, July 2005
- *'Interferometry in Radio Astronomy'* REU lecture, Arecibo Observatory, Arecibo, PR, June, 2004