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EDUCATION	Ph.D. , 2008, Cornell University, Astronomy and Space Sciences M.S. , 2006, Cornell University, Astronomy and Space Sciences B.S. , 2003, West Virginia University, Physics with Honors, summa cum laude, Phi Beta Kappa	
EMPLOYMENT HISTORY	2023 - present Director of Science Communications <ul style="list-style-type: none"> • Responsible for science conference exhibits and organization newsletters • VLA Sky Survey Science Group 2018 - 2023 Scientist <ul style="list-style-type: none"> • NRAO exhibit/science communication at AAS, IAU, and SC meetings with Dr. Mark Adams • NINE student program science and technical lead • Pipeline calibration; VLA Sky Survey; Survey Science Group • Dissertation Review Lead for PASP; SOC for the ADASS astronomy conference; NRAO Scientific Performance and Review Committee 2015 - 2018 Associate Scientist <ul style="list-style-type: none"> • AAS Harlow Shapley Visiting Lectureship (Link and Bio) • NRAO exhibit/science communication at AAS, IEEE, and URSI meetings with Dr. Mark Adams • VLA Sky Survey calibration and imaging, brought the VLA pipeline under a common CASA framework with ALMA. Added weblog functionality for ALMA flux catalog access, flag task refactoring, and calibration tasks. • Associate Guest Editor, PASP, with Dr. Jeff Mangum • Created the NRAO iOS app for NRAO EPO team. Generated 3D visuals and diagrams for EPO press releases. 2011 - 2015 Assistant Scientist <ul style="list-style-type: none"> • (1) Pipeline (2) Created a prototype spectral line web service of GBT data. • Created the first publicly available archive of Green Bank science data with Dana Balser and Melinda Mello, available through the NRAO database archive under one unified interface. • Followup observations of Virgo galaxies with IRAM 30m. 2008 - 2011 Jansky Postdoctoral Fellow <ul style="list-style-type: none"> • Worked with collaborators on various EVLA/Arecibo HI observations of galaxies. • LOC and SOC for the 2009 <i>Assembly, Gas Content and Star Formation History</i> meeting. • Assisted with ALMA Observing Tool testing. • Science interests: tidal interactions, LSS, mass function evolution. Gas in nearby galaxies. • Attended 26 different science/computing conferences with participation, talks, and posters. 2003 - 2008 Graduate Research <ul style="list-style-type: none"> • Dissertation: "<i>Toward the Virgo Cluster: On the Study of Neutral Hydrogen in the Local Universe</i>" with Professors Riccardo Giovanelli and Martha P. Haynes 2002 NSF REU <ul style="list-style-type: none"> • The GBT OH Megamaser Survey with James Braatz, Jeremy Darling 2001 NSF REU <ul style="list-style-type: none"> • Optical Observations of the Gamma-Ray Blazar PKS 1622-297 with James Webb 	National Radio Astronomy Observatory National Radio Astronomy Observatory National Radio Astronomy Observatory National Radio Astronomy Observatory Cornell University National Radio Astronomy Observatory Florida International University

HONORS,
AWARDS,
GRANTS, AND
FELLOWSHIPS

NRAO

- NRAO Distinguished Performance Award. 2019
- NRAO Star Awards. *VCLASS pipeline. iOS app creation with EPO.* 2015, 2017
- CINE Golden Eagle Award for Visualization. *Beyond the Visible: The Story of the VLA.* 2014

Cornell University

- Cranson and Edna B. Shelley Graduate Research Award, to recognize outstanding accomplishments 2007
- Cornell Graduate Travel Grants 2004, 2005, 2007
- NASA Space Grant Graduate Fellowship 2003-2004

West Virginia University

- Barry Goldwater Undergraduate Scholarship 2002-2003
- West Virginia University Outstanding Senior Physics Student 2003
- West Virginia University Foundation Scholarship 1999-2003
- Eberly College of Arts and Sciences Scholarship 2001-2003
- Eberly College Research Enrichment Awards 2002, 2003
- President's List 1999-2003

PROFESSIONAL
MEMBERSHIPS,
SERVICE,
COMMITTEES

- IAU (**Active Member**) and AAS (Full Member)
- 2021 NASA Science Mission Directorate Reviews. Panel member
- 2019-present Program organizing committee for the **ADASS** conference
- 2019-present NRAO Scientific Performance and Review Committee
- Guest Associate Editor, PASP Journal, 2016-2018, appointed by editor-in-chief Jeff Mangum
- Telescope Proposal referee (continuous 2014-2022), various non-NRAO telescopes, 30 proposals per cycle
- NRAO Computing Security Committee, scientific staff liaison (2014-present)
- Referee for the NASA Postdoctoral Fellowship program
- Referee for the Astrophysical Journal, ApJ Letters, ApJ Supplement, MNRAS, PASP, Astronomy and Computing, Earth Science Informatics, and Inter. Journal of Digital Earth, PASA
- LOC and SOC, ALMA/NRAO Assembly of Galaxies meeting, 2009
- Cornell Astronomy Computing Committee, 2006-2008
- Arecibo Legacy Fast ALFA Survey, *Oversight Committee and Project Approval*
- Aspen Summer School Organizing Committee, 2006
- Eberly College of Arts and Sciences, *Dean's Advisory Committee, 2001-2002*
- Phi Beta Kappa, Golden Key, Sigma Pi Sigma Physics, Phi Kappa Phi Honor Societies

STUDENT
ADVISING

- Paolo Estrada (University of Belize), NINE Student Program 2022
- M.Rodriguez (Univ. of Costa Rica), Isaak Nathan, Dom Morse (PVCC and LSAMP), NINE Student program 2021
- Mauricio Rodriguez (Univ. of Costa Rica) and John Beasley (JMU), NINE Student program 2020
- Heather Harbin (Texas Tech) and Alejandro Saravia (N. A. Uni. of Honduras), NINE Student program 2019
- Dany Vohl, Swinburne University of Technology, Dissertation Committee, Ph.D. awarded 2018
- Jason Renwick (Univ. of West Indies) and Alex Fortenberry (UVI), NRAO NINE program 2018
- Matias Garate, Pontificia Universidad Catolica De Chile, collaborator, MHD sim viz (2016-2017)

TECHNICAL
EXPERTISE

Observing Experience

- JVLA (PI - absorption L-band - A-config)
- IRAM 30-m (PI - spectral line observations)
- EVLA (co-I spectral line observations of the Leo Ring)
- VLA (PI - 24 hours of single field long integration spectral line observations)
- VLA (co-I - 24 hours multi configuration spectral line observations)
- GBT (50 hours commissioning for single field OH observations)

- GBT (50 hours PI for single field HI observations)
 - Arecibo (ALFA multibeam, 120 hours as lead observer)
 - Arecibo (50 hours as co-PI for pointed HI observations)
 - Arecibo (10 hours as co-PI for telescope commissioning and calibration)
 - Kitt Peak 0.9m (5 nights co-PI optical imaging)
 - Palomar (5 nights, 2 as lead observer, optical spectroscopy)
 - Cornell Computing Center: 4000 hours on 128 node cluster

Computing Experience: UNIX (Linux, Solaris), Mac OS, MS Windows

- Revision control: git, svn Programming Languages: Python, C/C++, FORTRAN
 - Graphics/Animation: Blender,GIMP,Photoshop Web/Database: HTML,PHP,MySQL,SQLServer, Javascript
 - Scientific Packages: IDL, Mathematica, MATLAB, OCTave, CASA, AIPS

COMMUNICATION,

MEDIA, AND **NRAO**, Charlottesville, VA

- Neural Networks and VLASS ([Link](#)) Jan 2023
 - Black Hole press release ([Link](#)) March 2021
 - Photo publication and interview in Wired ([Link](#)) Aug 2018
 - AAS Press Conference on 3D Visualization ([Webcast Link](#)) June 2017
 - Video featured on astronomy.com ([Link](#)) August 2014
 - WINA News Radio Interview on Astronomy March 2015
 - Dominion Energy STEM Career Day Oct. 2014, 2015
 - Wolfram Demo Project([Link](#)) 2011
 - US Science and Eng. Festival: *NRAO outreach exhibit* 2010, 2012, 2014
 - Charlottesville Astro Festival: *Invited talk on computing and astronomy* 2009, 2011
 - UVa Cavalier Daily Interview: *Accessing Astronomy at the NRAO* 2009
 - 50 years of NRAO Students: NRAO Outreach ([Link](#)) 2009

Cornell University, Department of Astronomy, Ithaca, NY

- Four part radio series: *Science/Life in the Universe*, Radio Free Asia 2007
 - Invited talks: *Kopernicus Science Center: The Radio Universe* and Union College 2005, 2006, 2008
 - Observing coordinator, Cornell Alumni Adult University 2005-2007
 - Teaching Assistant, Cornell Astronomy 2004-2005
 - Expanding Your Horizons (junior high students) Summer 2004
 - Cornell: Ask an Astronomer 2003-2004

West Virginia University, Physics Department, Teaching/Recitation Assistant

2000-2001

REFEREED

PUBLICATIONS

31. Hunter, T. R., Indebetouw, R., Brogan, C. L., Chang, C-S., Francke, H., Geers, V. C., Gomez, L., Hibbard, J. E., Humphreys, E. M., Kepley, A. A., Kunneriath, D., Lipnicky, A., Loomis, R. A., Mason, B. S., Masters, J. S., Maud, L. T., Muders, D., Sugimoto, K., Videla, L., Williams, S., Yoon, I., Berry, K., **Kent, B. R.**, Miura, R. E., Miyamoto, Y., Nakazato, T., Saito, T. [The ALMA Interferometric Pipeline Heuristics](#) , 2023, PASP, 135, 1049
30. Pesce, D. W., Seth, A. C., Greene, J. E., Braatz, J. A., Condon, J. J., **Kent, B. R.**, Krajnovic, D. [A Restless Supermassive Black Hole in the Galaxy J0437+2456](#). 2021, ApJ, 909, 141
29. Lacy, M., Baum, S. A., Chandler, C. J.,...8 co-authors..., **Kent, B. R.**,...66 co-authors. [The Karl G. Jansky Very Large Array Sky Survey \(VLASS\). Science Case and Survey Design](#). 2020, PASP, 132, 1009
28. **Kent, B.R.** [Science and Computing with Raspberry Pi](#). 2018, IOP Press
27. Selina R.J., Murphy, E.J., McKinnon, M., Beasley, A., Butler, B., Carilli, C., Clark, B., Erickson, A., Grammer, W., Jackson, J., **Kent, B.R.**, Mason, B., Morgan, M., Ojeda, O., Shillue, W., Sturgis, S., Urbain, D. [The ngVLA Reference Design](#), 2018, ASP Conf. Series, ed. Eric Murphy
26. Haynes, M.P., Giovanelli, R., **Kent, B.R.**, Adams, E.A.K.,...(21 co-authors). [The ALFALFA Survey: Extragalactic HI Source Catalog](#). 2018, ApJ, 861, 1
25. **Kent, B.R.** [Spherical Panoramas for Astrophysical Data Visualization](#). 2017, PASP, 129, 975, 8004
24. **Kent, B.R.** [Techniques and Methods for Astrophysical Data Visualization](#). 2017, PASP, 129, 975, 8001
23. **Kent, B.R.** [3D Scientific Visualization with Blender](#). 2015, IOP Press
22. **Kent, B.R.** [Visualizing Astronomical Data with Blender](#). 2013, PASP, 125, 928
21. Haynes, M. P., Giovanelli, R.,...,(7 co-authors)..., **Kent, B. R.**,...,(14 co-authors). [The ALFALFA alpha.40 HI Source Catalog](#). 2011, AJ, 142, 170
20. Boselli, A., ...,(31 co-authors)...,**Kent, B.R.**,...,(20 co-authors). [The GALEX UV Virgo Cluster Survey \(GUViCS\). I: The UV luminosity function of the central 12 sq.deg.](#) 2011, A&A, 528, A107
19. **Kent, B.R.** [Clouds in the Virgo Cluster Periphery: Gas-rich Optically Inert Galaxies](#). 2010, ApJ, 725, 2333
18. Cortese, L., Bendo, G.J., Isaak, K.G., Davies, J.I., & **Kent, B.R.**. [Diffuse far-infrared and ultraviolet emission in the NGC 4435 system](#). 2010, MNRAS Letters, 403, 26L
17. Giovanelli, R., Haynes, M.P., **Kent, B.R.**, & Adams, E. [Are newly discovered HI high-velocity clouds minihalos in the local group?](#), 2010, ApJL, 708L, 22
16. **Kent, B.R.**, Spekkens, K., Giovanelli, R., Haynes, M.P., Momjian, E., Cortes, J.R., Hardy, E., West, A. [The Arecibo Legacy Fast ALFA Survey VII: A Neutral Hydrogen Cloud Complex in the Virgo Cluster](#). 2009, ApJ, 691, 1595
15. Spoon, H. W. W., Armus, L., Marshall, J. A., Bernard-Salas, J., Farrah, D., Charmandaris, V., **Kent, B. R..** [High-velocity neon line emission from the ULIRG IRAS F00183-7111:](#)

- revealing the optically obscured base of a nuclear outflow. 2009, ApJ, 693, 1223
14. Stierwalt, S., Haynes, M. P., Giovanelli, R., **Kent, B. R.**, Martin, A. M., Saintonge, A., Karachentsev, I., Karachentseva, V.
The ALFALFA Survey VIII: The Leo Region HI Catalog, Group Membership and the HI Mass Function for the Leo I Group. 2009, AJ, 138, 338
13. Martin, A. M., Giovanelli, R., Haynes, M. P., Saintonge, A., Hoffman, G. L., **Kent, B. R.**, Stierwalt, S.
The ALFALFA Survey IX. HI Source Catalog of the Anti-Virgo Region at $\delta = +25^\circ$ 2009, ApJS, 128, 214
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The HI content of early-type galaxies from the ALFALFA survey II. The case of low density environments. 2009, A&A, 497, 408
11. **Kent, B.R.**, Giovanelli, R., Haynes, M.P., Martin, A., Stierwalt, S., Saintonge, A., Brosch, N., Catinella, B., Koopmann, R.A., Momjian, E.
The Arecibo Legacy Fast ALFA Survey: VI. Second HI Source Catalog of the Virgo Cluster Region. 2008, AJ, 136, 713
10. Koopmann, R.A., Giovanelli, R., Haynes, M.P., **Kent, B.R.**, Balonek, T.J.; Brosch, N., Higdon, J. L.; Salzer, J. J.; Spector, O. **A 500 kpc H I Extension of the Virgo Pair NGC 4532/DDO 137.** 2008, ApJL, 682, 85L
9. Gavazzi, G., Giovanelli, R., Haynes, M. P., Fabello, S., Fumagalli, M., **Kent, B. R.**, Koopmann, R. A., Brosch, N., Hoffman, G. L., Salzer, J. J., Boselli, A.
HI content and other structural properties of galaxies in the Virgo cluster from the ALFALFA Survey. 2008, A&A, 482, 43
8. Saintonge, A., Giovanelli, R., Haynes, M.P., Brosch, N., Hoffman, G.L., **Kent, B.R.**, Martin, A.M., & Stierwalt, S. **The ALFALFA Survey: IV. HI Source Catalog of the Anti-Virgo Region at Decl. = $+27^\circ$.** 2008, AJ, 135, 588.
7. di Serego Alighieri, S., Gavazzi, G., Giovanardi, C., Giovanelli, R., Grossi, M., Haynes, M.P., **Kent, B.R.**, Koopmann, R.A., Pellegrini, S., Scodeggio, M. & Trinchieri, G.
The HI Content of Early-Type Galaxies from the ALFALFA survey: I. Catalogued HI sources in the Virgo Cluster. 2007, A&A, 474, 851.
6. **Kent, B.R.**, Giovanelli, R., Haynes, M.P., Saintonge, A., Stierwalt, S., Balonek, T., Brosch, N., Catinella, B., Koopmann, R.A., Momjian, E. & Spekkens, K.
Optically Unseen HI Detections toward the Virgo Cluster detected in the ALFALFA Survey. 2007, ApJL, 665, L15
5. Haynes, M.P., Giovanelli, R. & **Kent, B.R.**
NGC 4254: An Act of Harassment Uncovered by the Arecibo Legacy Fast ALFA Survey. 2007, ApJL, 665, L19
4. Giovanelli, R., Haynes, M.P., **Kent, B.R.**, and 19 coauthors.
The ALFALFA Survey: III. HI Source Catalog of the Northern Virgo Cluster Region. 2007, AJ, 133, 2569
3. Giovanelli, R., Haynes, M.P., **Kent, B.R.**, and 16 coauthors.
The ALFALFA Survey: II. Results of Precursor Observations. 2005, AJ, 130, 2613
2. Giovanelli, R., Haynes, M.P., **Kent, B.R.**, and 37 coauthors.
The ALFALFA Survey: I. Science Goals, Survey Design and Strategy. 2005, AJ, 130, 2598

1. Springob, C.M., Haynes, M.P., Giovanelli, R., **Kent, B.R.**
[A Digital Archive of HI 21-cm Line Spectra of Optically Targeted Galaxies](#). 2005, ApJS, 160, 149

CONFERENCE
PROCEEDINGS,
BOOK
CHAPTERS,
AND MEMOS

26. **Kent, B.R.** Machine Learning Using the NVidia Jetson Nano, 2022, ADASS XXX
25. Lacy, M., Myers, S. T., Chandler, C., Kapinska, A. D., **Kent, B. R.**, Kimball, A. et al.
[Pilot and Quick Look Data Release](#), 2022, VLASS Memo Series 13
24. Rodriguez, M., Beasley, J., **Kent, B.R.**, et al. [VLASS Quicklook Image Classifier Using PyTorch](#), 2022, ADASS XXX
23. Beasley, J., Rodriguez, M., **Kent, B.R.**, et al. [Accessing Radio Data with the NRAO NINE Program](#), 2022, ADASS XXX
22. **Kent, B.R.** 3D Data Visualization in Radio Astronomy, 2021, URSI General Assembly, Rome, Italy, September
21. **Kent, B. R.**, Masters, J.S., Chandler, C. J. et al. [Pipeline Calibration and Imaging for the VLA](#), 2020, ADASS XXIX
20. Masters, J.S., **Kent, B. R.**, et al. [Pipeline Calibration and Imaging for ALMA](#), 2020, ADASS XXIX
19. **Kent, B. R.** 3D Data Visualization in Astrophysics, 2019, ADASS XXVIII
18. Emonts, B.,...19 co-authors..., **Kent, B. R.**,...17 co-authors,
[The CASA Software for Radio Astronomy: Status Update](#), 2019, ADASS XXVIII
17. Selina R.J., Murphy, E.J., McKinnon, M., Beasley, A., Butler, B., Carilli, C., Clark, B., Erickson, A., Grammer, W., Jackson, J., **Kent, B.R.**, Mason, B., Morgan, M., Ojeda, O., Shillue, W., Sturgis, S., Urbain, D. [The Next-Generation Very Large Array: a technical overview](#), 2018, SPIE Astro Telescopes and Instrumentation, Austin, TX.
16. Geers, V.C., Williams, S., Muders D., Wyrowski, F., Kosugi, G., Nakazato, T., Sugimoto, K., Davis, L., Hales, C., **Kent, B.R.**, Kern, J. [The ALMA Science Pipeline](#), 2019, ADASS XXVI
15. Mangum, J. G., Darling, J., Menten, K.M., Henkel, C., Aalto, S., Spaans, M., van der Werf, P., Ginsburg, A., Formalont, E., Cotton, B., **Kent, B.R.** [Densitometry and Thermometry of Starburst Galaxies](#), Conditions and Impact of Star Formation, 2015, EAS Publications Series, 75, 61
14. Carilli, C. L., McKinnon, M., ... (15 co-authors)...**Kent, B. R.**, Clark, B., Butler, B.
[ngVLA Memo 5. – Project Overview](#), 2015
13. **Kent, B.R.** 3D Visualization of Astronomical Data with Blender, 2015, ADASS XXIV, ASPC
12. Shinnaga, H... (14 co-authors)...**Kent, B.**, Momjian, E., Hunter, T.
[The ALMA Pipeline - Current Status](#). 2015, ALMA Tokyo Meeting, Dec. 2014
11. Davis, L., Williams, S., Nakazato, T., Lightfoot, J., Muders, D., **Kent, B.R.**
[The ALMA Pipeline Execution Framework](#)., 2015, ADASS XXIV, ASPC
10. **Kent, B.R.** Visualizing Scientific Graphics for Astronomy and Astrophysics, 2013, Proceedings of ACM SIGGRAPH. No. 113
9. Balser, D., **Kent, B.R.**, Hunt, G. [The Green Bank Telescope Archive](#), 2012, GBT Memo #278.

8. Kent, B.R. [The GRIDView Visualization Package](#), 2011, ADASS XX, ASPC, 442, 625
7. Martin, A. M., Koopmann, R., Higdon, S., Balonek, T. J., Haynes, M. P., Giovanelli, R., Adams, E. A. K., Kent, B. R., Stierwalt, S. [The Undergraduate ALFALFA Team: A Model for Undergraduate Participation and Outreach](#), 2011, ASPC, 443, 273
6. Goodman, A. A., Udomprasert, P. S., Kent, B.R., Sathiapal H., Smareglia, R. [Astronomy Visualization for Education and Outreach](#), 2011, ADASS XX, ASPC, 442, 659
5. Koopmann, R. A., Giovanelli, R., Haynes, M. P., Kent, B., Brosch, N. [ALFALFA HI Content and Star Formation in Virgo Cluster Early-Type Dwarfs](#), 2010, ASPC, 423, 101
4. Kent, B.R. [HI Clouds, Debris, and Galactic HI Toward the Virgo Region with the ALFALFA](#), 2008, AIPC, 1035, 225
3. Kent, B.R. [HI Clouds detected toward Virgo with the ALFALFA](#), 2008, IAU Symposium, 244, 93
2. Kent, B.R. [HI Observations of the Virgo Cluster](#), 2008, NRAO 50th Ann., ASPC, 395, 369
1. Kent, B.R., Greene, G., Plante, R., Williams, R. Hanisch, R.J. Six papers in [Tools and Techniques for Astronomical Research](#), 2007, ASPC v.382

ABSTRACTS

57. Kent, B. R., [Neural Networks with the VLA Sky Survey](#), 2023, Jan AAS #241, #105.20
56. Kent, B. R., [Data Cube Volume Visualization with Open Shading Language and Blender](#), 2022, June AAS #240, #302.22
55. Kent, B. R., [Visualization of Discrete Cellular Automata Galaxy Models](#), 2021, June AAS #238, #132.07
54. Kent, B. R., [Neural Networks with the Nvidia Jetson Nano](#), 2021, January AAS #237, #541.02
53. Beasley, J., Rodriguez Alas, M., Kent, B. R., Fourie, A., von Schill, L., [The NRAO NINE program and Radio Astronomy Accessibility](#), 2021, January AAS #237, #547.09
52. Rodrguez Alas, M., Beasley, J., Fourie, A., Kent, B., von Schill, L., [NINE Virtual Radio Astronomy Hub for Costa Rica and the Central America Region](#), 2021, January AAS #237, #323.02
51. Kent, B. R., Fourie, A., Harbin, H., Saravia, A., von Schill, L., [Python, Data Science, and Radio Astronomy with NRAO NINE](#), 2020, January AAS #235, #313.04
50. Saravia, A., Harbin, H., Fourie, A., Kent, B. R., von Schill, L., [The NRAO NINE program in Central America](#), 2020, January AAS #235, #104.04
49. Harbin, H., Saravia, A., Corsi, A., Fourie, A., Kent, B. R., von Schill, L., [The NRAO NINE Program and NRAO-TTU NINE Hub](#), 2020, January AAS #235, # 104.01
48. Kent, B. R., Haque, S., Renwick, J. D., Fortenberry, A., Rajkumar, B., Chitan, A., Fourie, A., von Schill, L., [Astronomical Data Mining with NRAO NINE and UWI Trinidad](#), 2019, June AAS, #234, #103.07
47. Kent, B. R., [Self-organizing Maps and Machine Learning with VLA Sky Survey Imaging](#), 2019, January AAS, #233, #446.01

46. Marvil, J., Chandler, C. J., **Kent, B. R.**, Myers, S. T., Schinzel, F. K., [Calibration of the VLA Sky Survey](#), 2019, January AAS, #233, #446.02
45. von Schill, L., Fourie, A., **Kent, B. R.**. [NRAO's NINE Program](#), 2019, January AAS, #233, #262.11
44. **Kent, B. R.**, Haynes, M. P., Giovanelli, R., & the ALFALFA Team. [The ALFALFA Extragalactic Catalog and Data Processing Pipeline](#), 2018, June AAS, #232, #220.01
43. **Kent, B. R.**, Masters, J. S., Chandler, C. J., Davis, L. E., Kern, J. S., Ott, J., Schinzel, F. K., Medlin, D., Muders, D., Williams, S., Geers, V. C., Momjian, E., Butler, B. J., Nakazato, T., Sugimoto K. [The VLA Data Processing Pipeline](#), 2018, January AAS, #231, #342.14
42. **Kent, B. R.** and Garate, M., [Data Cube Visualization with Blender](#), 2017, June AAS #230, #216.06
41. **Kent, B. R.**, [3D Immersive Visualization with Astrophysical Data](#), 2017, Jan. AAS #229, #236.14
40. **Kent, B. R.**, [Spherical Panorama Viz of Astronomical Data](#), 2016, June AAS #228, #317.04.
39. **Kent, B. R.**, [3D Viz of Machine Learning Algorithms with Astronomical Data](#), 2016, Jan. AAS Meeting #227, #348.05.
38. **Kent, B. R.**, [Astronomy Data Viz with Blender](#), 2015, IAU General Assembly XXIX, P2.036.
37. **Kent, B. R.** & Wood, M. A., [Visualizing SPH Cataclysmic Variable Accretion Disk Simulations with Blender](#), 2015, Jan. AAS Meeting #225, #336.52.
36. Mills, E., Kern, J., Corby, J., **Kent, B. R.**. [Visualization and Analysis of Rich Spectral-Line Datasets](#), 2015, Tools for Astronomical Big Data, Tucson, AZ.
35. **Kent, B. R.**, [Visualizing Astronomical Data with Blender](#), 2014, Jan. AAS Meeting #223, #255.23.
34. **Kent, B. R.**, [GRIDView: Analysis and Cataloging of Atomic Spectra for Galaxies](#), 2012, [NIST ICAMDATA Meeting](#), Gaithersburg, MD.
33. Remijan, A. J., Pulliam, R. L., Markwick, A., **Kent, B. R.**. [Splatalogue - Database for Molecular Spectroscopy](#), 2012, [NIST ICAMDATA Meeting](#), Gaithersburg, MD.
32. **Kent, B. R.**, Chung, A., Wrobel, J.M., Ott, J., Morrison, G.E., Bekki, K., Park, H., [EVLA Observations of the Leo Ring](#), 2012, AAS Meeting #219, 2192441
31. **Kent, B. R.** [Wavelet Analysis of AGN Jets](#). 2012, Jets, Winds, and Outflows, Charlottesville, VA.
30. **Kent, B. R.** [Gas-rich Detections in Nearby Clusters](#). 2011, Spectroscopy Meeting, Victoria, BC.
29. **Kent, B. R.** [Cellular Automata Algorithms for Galaxy Formation](#). 2011, Wolfram Research Summer School, Boston, MA.
28. **Kent, B. R.** [Gas-rich Optically Inert Galaxies in the Virgo Cluster](#). 2011, AAS Meeting, 217, #149.22
27. **Kent, B. R.** [The Virgo Cluster: HI Mass Function, Environment and Morphology](#). 2010, AAS Meeting, 215, #436.14
26. Koopmann, R.A., Giovanelli, R., Haynes, M.P., **Kent, B.R.**, & Brosch, N. [ALFALFA HI Content and Star Formation of Early-type Dwarfs in The Virgo Cluster](#). 2010, AAS Meeting, 215, #451.03

25. Kent, B. R. *Visualization tools for spectral line observations*. 2009, CARMA Science Symposium
24. Kent, B. R. *Galaxy Environment and HI in the Virgo Cluster*. 2009, Galaxies09 meeting
23. Kent, B. R. *Gas Evolution of Galaxies and the Environmental Dependence of the HI Mass Function* 2009, NRAO Postdoc Symposium
22. Koopmann, R. A., Giovanelli, R., Haynes, M. P., Kent, B. R., Brosch, N.
ALFALFA HI Content and Star Formation in Virgo Cluster Early-Type Dwarfs. 2009, Stellar Populations and Star Formation in Interacting Galaxies Meeting
21. Kent, B. R. *HI and the Virgo Cluster*. 2008, NRAO/EVLA Galaxies through Cosmic Time meeting
20. Kent, B. R., *Gas Content of Galaxies Near and Far*. 2008, NRAO/ALMA meeting: Formation of Massive Stars in the Galaxy
19. Kent, B. R., *The Virgo Cluster: HI Characterization and Optically Inert Detections*. 2007, BAAS, 39, 952
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4. **Kent, B.R.** *HI Observations with a Small Radio Telescope*. 2001, Eberly College of Arts & Sciences Student Research Symposium
3. **Kent, B.R.**, Soulsby, R. C., Boivin, R. F., Kline, J. L., Scime, E. E.
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INVITED TALKS

<i>3D Data Visualization</i> . Henry Royce Institute.	(Link)	June 2023
<i>VLA Sky Survey Conference</i> . Socorro, NM.	(Link)	Sept. 2022
<i>Flatiron Institute NYC - Data Visualization</i> .	(Link)	October 2021
<i>APS - Data Visualization</i> . Virtual	(Link)	March 2021
<i>APS - Data Visualization</i> . Denver, CO		March 2020
<i>NCSA</i> . Champaign-Urbana, IL	(Link)	Feb. 2019
<i>ADASS 2018</i> . College Park, MD.	(Link)	Nov. 2018
<i>Harlow Shapley Lecture</i> . Old Dominion University.	(Link and Bio)	March 2016
<i>Astronomy Visualization</i> . Old Dominion University.		March 2015
<i>Visualization in the Sciences</i> . Old Dominion University		April 2014
<i>Galaxies in the Nearby Universe</i> . Univ. of Michigan colloquium		March 2012
<i>Cellular Automata and Galaxies</i> . Wolfram Research Summer School		July 2011
<i>Visualization in Radio Astronomy</i> . Visualize 2010 meeting		May 2010
<i>HI and the Virgo Cluster</i> . Univ. of Kentucky colloquium		Feb. 2010
<i>Databases for Large Surveys</i> . Arecibo Observatory		Dec. 2009

CONTRIBUTED TALKS

<i>The NRAO and Radio Astronomy</i> . AAS EPO talk, Denver and St. Louis	2018, 2019
<i>Machine Learning Visualization</i> . AstroStat Special Session	Jan 2016
<i>Astronomy and Blender</i> . SIGGRAPH BoF session	July 2013
<i>The NRAO and Radio Astronomy</i> . AAS EPO talk, Indianapolis and Boston	2013, 2014
<i>Radio Astronomy</i> . Piedmont Virginia Comm. College	Oct. 2013
<i>C.A., Galaxies, and GPUs</i> . Software Development Workshop	Oct. 2011
<i>Clouds Toward Virgo</i> . NRAO Postdoc Symposium	April 2011
<i>Environment and Virgo</i> . ALMA conference talk, NRAO-CV	Sept. 2009
<i>Environmental Dependence of the HIMF</i> . Socorro, NM	April 2009
<i>Online Science/DB Tools</i> . NRAO Lunch Talk, NRAO-CV	April 2009
<i>HI and the Virgo Cluster</i> . EVLA meeting, Socorro, NM	Dec. 2008

<i>Gas-rich Detections in Virgo.</i> NRAO Lunch Talk, NRAO-CV	Sept. 2008
<i>Astronomical Data Mining.</i> Public Lecture, Ithaca, NY	October 2007
<i>HI Clouds in Virgo.</i> IAU Symposium 244, Cardiff, UK	June 2007
<i>Virgo in HI.</i> Cornell Lunch Talk Series, Ithaca, NY	Feb. 2007
<i>Databases for Imaging and Catalogs.</i> Summer School, Aspen, CO	Sept. 2006
<i>Combining Web Services.</i> Summer School, Aspen, CO	Sept. 2006
<i>Building Client Applications.</i> Summer School, Aspen, CO	Sept. 2006
<i>Combining Web Services.</i> Summer School, Aspen, CO	Sept. 2006
<i>Cone Search:The Data Access Layer.</i> Summer School, Aspen, CO	Sept. 2006
<i>Metadata Descriptions.</i> Summer School, Aspen, CO	Sept. 2006
<i>HI, Galaxies, and Virgo.</i> Cornell Summer Talk Series, Ithaca, NY	July 2006
<i>HI Observations of Virgo.</i> ALFALFA Meeting, Ithaca, NY	June 2006
<i>HI Clouds in Virgo.</i> NRAO Science Talk, Green Bank, WV	June 2006
<i>Large Radio Sky Surveys.</i> Cornell Summer Talk Series, Ithaca, NY	July 2005
<i>Followup Databases for Astronomy.</i> ALFALFA Meeting, Ithaca, NY	June 2005
<i>Large Databases for Astronomy.</i> Arecibo Observatory	April 2004