

<b>Contact Information</b>	<b>CSIRO</b> Astronomy & Space Science 26 Dick Perry ave Kensington, WA, 6101 Australia	<a href="mailto:tessa.vernstrom@csiro.au">tessa.vernstrom@csiro.au</a> <a href="http://www.tessavernstrom.com">www.tessavernstrom.com</a>
<b>Research Interests</b>	Extragalactic radio sources, properties and statistics, particularly in the $\mu\text{Jy}$ and sub- $\mu\text{Jy}$ ranges; source confusion; galaxy evolution; large-scale structure; the cosmic radio background; the synchrotron cosmic web; cosmic magnetism; high-redshift source properties; radio surveys; astrostatistics; machine learning; data visualisation methods	
<b>Skills</b>	Model fitting; likelihoods; $\chi^2$ ; Bayesian analysis; Monte Carlo Markov Chains; error/uncertainty analysis; covariance/correlation matrices; cross and auto correlations; bootstrap & jackknife tests; stacking; Fourier transforms; power spectra; source peak finding; source fitting; catalogue construction; confusion analysis; source counts; luminosity functions; SED fitting; radio interferometry data reduction (full polarization) & imaging; Rotation Measure (RM) synthesis; QU-fitting	
<b>Employment</b>	<b>Bolton Fellow</b> , 2018 - Present <b>CSIRO</b> , <b>Astronomy &amp; Space Science</b> , Perth, Australia  <b>Postdoctoral Researcher</b> , 2015 - 2018 <b>Dunlap Institute for Astronomy and Astrophysics</b> , <b>University of Toronto</b> , Toronto, Canada Supervisor: <a href="#">Professor Bryan Gaensler</a>	
<b>Education</b>	<b>University of British Columbia</b> , Vancouver, Canada <b>PhD</b> , Astronomy, Sept 2011 - Aug 2015 <ul style="list-style-type: none"><li>• Thesis: <i>The Faint Extragalactic Radio Sky</i></li><li>• Advisers: <a href="#">Professor Douglas Scott</a>, <a href="#">Professor Jasper Wall</a></li></ul> <b>University of British Columbia</b> , Vancouver, Canada <b>MSc</b> , Astronomy, Sept 2009 - Sept 2011 <ul style="list-style-type: none"><li>• Thesis: <i>Contribution to the Diffuse Radio Background from Extragalactic Radio Sources</i></li><li>• Advisers: <a href="#">Professor Douglas Scott</a>, <a href="#">Professor Jasper Wall</a></li></ul> <b>University of Minnesota</b> , Minneapolis, MN, United States <b>BSc</b> , Astrophysics, December 2008	

**Refereed  
Journal  
Publications  
(1st/2nd  
author)**

As of May 2021:

Summary Statistics and 1st and 2nd author papers (full publication list given at end of CV):

**Total: 25**

**First Author: 9**

**h-index: 14**

**Link to ADS search results - <http://tinyurl.com/ybo95szx>**

**ORCID : <https://orcid.org/0000-0001-7093-3875>**

1. Discovery of Magnetic Fields Along Stacked Cosmic Filaments as Revealed by Radio and X-Ray Emission  
**Vernstrom, T.**, Heald, G. ,Vazza., F., Galvin, T., West, J., Locatelli, N., Fornengo, N., Pinetti, E.  
 Accepted to MNRAS April 2021  
 doi:[10.1093/mnras/stab1301](https://doi.org/10.1093/mnras/stab1301)  
 Citations: **4**
2. Constraints On Large-Scale Magnetic Fields In The Intergalactic Medium Using Cross-Correlation Methods  
 Amaral, A.D., **Vernstrom, T.**, Gaensler, B.M.  
*Monthly Notices of the Royal Astronomical Society*, 503 (2021)  
 doi:[10.1093/mnras/stab564](https://doi.org/10.1093/mnras/stab564)  
 Citations: **1**
3. Unveiling the cause of hybrid morphology radio sources  
 Harwood, J., **Vernstrom, T.**, Stroe, A.  
*Monthly Notices of the Royal Astronomical Society*, 491 (2019)  
 doi:[10.1093/mnras/stz3069](https://doi.org/10.1093/mnras/stz3069)  
 Citations: **9**
4. Differences in Faraday Rotation Between Adjacent Extragalactic Radio Sources as a Probe of Cosmic Magnetic Fields  
**Vernstrom, T.**, Gaensler, B., Rudnick, L., Andernach, H.  
*Astrophysical Journal*, 878 (2019)  
 doi:[10.3847/1538-4357/ab1f83](https://doi.org/10.3847/1538-4357/ab1f83)  
 Citations: **16**
5. Source counts and confusion at 72-231 MHz in the MWA GLEAM survey  
 Franzen, T.M.O., **Vernstrom, T.**, +24 coauthors  
*Publications of the Astronomical Society of Australia*, 36 (2019)  
 doi:[10.1017/pasa.2018.52](https://doi.org/10.1017/pasa.2018.52)  
 Citations: **12**
6. Radio Polarization Properties of Quasars and Active Galaxies at High Redshifts  
**Vernstrom, T.**, Gaensler, B. M., Vacca, V., Farnes, J.S., Haverkorn, M., O'Sullivan, S.P.  
*Monthly Notices of the Royal Astronomical Society*, 475 (2018)  
 doi:[10.1093/mnras/stx3191](https://doi.org/10.1093/mnras/stx3191)  
 Citations: **7**
7. Limiting Magnetic Fields in the Cosmic Web with Diffuse Radio Emission  
 Brown, S., **Vernstrom, T.**, Carretti, E., Dolag, K., Gaensler, B. M., Staveley-Smith, L., Bernardi, G., Haverkorn, M., Kesteven, M., Poppi, S.  
*Monthly Notices of the Royal Astronomical Society*, 468 (2017)  
 doi:[10.1093/mnras/stx746](https://doi.org/10.1093/mnras/stx746)  
 Citations: **32**
8. Low Frequency Radio Constraints on the Synchrotron Cosmic Web  
**Vernstrom, T.**, Gaensler, B. M., Brown, S., Lenc, E., Norris, R. P.  
*Monthly Notices of the Royal Astronomical Society*, 467 (2017)  
 doi:[10.1093/mnras/stx424](https://doi.org/10.1093/mnras/stx424)  
 Citations: **38**

9. Deep 3 GHz Observations of the Lockman Hole North with the Very Large Array - 2. Catalogue and  $\mu$ Jy source properties  
**Vernstrom, T.**, Douglas Scott, J.V. Wall, J.J. Condon, W.D. Cotton, K.I. Kellermann, R.A. Perley  
*Monthly Notices of the Royal Astronomical Society*, 462 (2016)  
[doi:10.1093/mnras/stw1836](https://doi.org/10.1093/mnras/stw1836)  
 Citations: **22**
10. Deep 3 GHz Observations of the Lockman Hole North with the Very Large Array - 1. Source extraction and uncertainty analysis  
**Vernstrom, T.**, Douglas Scott, J.V. Wall, J.J. Condon, W.D. Cotton, R.A. Perley  
*Monthly Notices of the Royal Astronomical Society*, 461 (2016)  
[doi:10.1093/mnras/stw1530](https://doi.org/10.1093/mnras/stw1530)  
 Citations: **9**
11. The Deep Diffuse Extragalactic Radio Sky at 1.75 GHz  
**Vernstrom, T.**, Norris, Ray P., Scott, Douglas, Wall, J.V.  
*Monthly Notices of the Royal Astronomical Society*, 447 (2015)  
[doi:10.1093/mnras/stu2595](https://doi.org/10.1093/mnras/stu2595)  
 Citations: **30**
12. Deep 3 GHz Number Counts from a  $P(D)$  Fluctuation Analysis  
**Vernstrom, T.**, Douglas Scott, J.V. Wall, J.J. Condon, W.D. Cotton, E.B. Fomalont, K.I. Kellermann, N. Miller, R.A. Perley  
*Monthly Notices of the Royal Astronomical Society*, 404 (2014)  
[doi:10.1093/mnras/stu470](https://doi.org/10.1093/mnras/stu470)  
 Citations: **58**
13. Contribution to the Diffuse Radio Background from Extragalactic Radio Sources  
**Vernstrom, T.**, Scott, Douglas., & Wall, J.V.  
*Monthly Notices of the Royal Astronomical Society*, 415 (2011)  
[doi:10.1111/j.1365-2966.2011.18990.x](https://doi.org/10.1111/j.1365-2966.2011.18990.x)  
 Citations: **41**

**Refereed  
Conference  
Proceedings**

**Total: 3**

**First Author: 1**

1. The Radio Synchrotron Background: Conference Summary and Report  
 Singal, J. + 21 co-authors, **Vernstrom, T.**  
*PASP*, 130, (2018)  
[doi:10.1088/1538-3873/aaa6b0](https://doi.org/10.1088/1538-3873/aaa6b0)  
 Citations: **17**
2. Astronomy Below the Survey Threshold in the SKA Era  
 Zwart, J. + 16 co-authors, **Vernstrom, T.**  
*Proceedings of Science, Proceedings of Advancing Astrophysics with the Square Kilometre Array*, 172 (2015)  
[PoS: AASKA14172](https://ui.adsabs.org/abs/2015ASPC..480..172V)  
 Citations: **10**
3. Deep Source-Counting at 3 GHz  
**Vernstrom, T.**, Wall, J.,V., Scott, Douglas  
*Proceedings of the International Astronomical Union*, 306, 177-181 (2014)  
[doi:10.1017/S1743921314011053](https://doi.org/10.1017/S1743921314011053)

**Published  
Catalogs**

**Total: 3**

1. POGS-II ExGal catalog (Riseley+20)  
[Vizier online data](https://vizier.cesr.cornell.edu/viz-bin/VizieR?source=POGS-II+ExGal)

2. VLA 3GHz radio source catalog in the Lockman Hole (Cotton+18)  
[Vizier online data](#)
3. Lockman Hole North 3GHz Source Catalogue (Vernstrom+16)  
[Vizier online data](#)

**Talks and Posters (Short)** Summary Statistics and 5 most recent (full list given at end of CV):  
**Invited Talks: 11**  
**Colloquia: 9**  
**Contributed Talks: 14**  
**Posters: 3**

1. **Colloquium:** Harvard CfA Clusters Seminar, Virtual, June 2021
2. **Invited Talk:** ASTRON Seminar, Virtual, March 2021
3. **Contributed Talk:** SKA Science Meeting; Virtual, March 2021
4. **Colloquium:** Swinburne University, Melbourne, AU Oct 2020
5. **Invited Talk:** Australia-ESO Joint Conference; Perth, AU. Feb 2020
6. **Invited Talk:** MWA Users Meeting; Arizona, US. Dec 2019

**Fellowships & Awards**

- CSIRO Superior Performance Award, 2020
- CSIRO Bolton Fellowship, 2018, *Accepted*
- SKA South Africa Fellowship, 2018, *Declined*
- NRAO Jansky Fellowship, 2018, *Declined*
- Hertfordshire Vice-Chancellor Big Data Science Fellowship, 2018 *Declined*

**Survey Groups & Collaborations** ASKAP: EMU (**Project Scientist; Co-lead of EMU Clusters and Cosmic Web Science Group**), POSSUM (**Co-lead Distant Universe Science Group**) ; MWA: Galactic and Extragalactic Science Group, GLEAMX Survey; MeerKAT: MIGHTEE; LOFAR: Magnetism Key Science Program, Radio Galaxies; SKA: Continuum, Magnetism Key Science Groups.

**Leadership Roles**

- Project Scientist, EMU Survey (June 2020 - Present)
- Co-Leader EMU Clusters & Cosmic Web Science Group (May 2019 - Present)
- Co-Leader POSSUM Distant Universe Science Group (May 2020 - Present)
- Leader MWA Galactic & ExtraGalactic (GEG) Science Team (Jan 2018 - June 2020)

**Press Releases & Articles**

**Total: 5**  
[Nature Astronomy Research Highlight](#) : *Stacking the odds*, June 2021  
[Space Australia Article](#) : *Magnetic Fields Found in Cosmic Filaments*, February 2021  
[New Scientist Article](#) : *The universe is 2.5 billion times less magnetic than a fridge magnet*, May 2019

**Dunlap Institute Press Release** : *The Search for the Radio Cosmic Web and Large-Scale Cosmic Magnetism Begins*, April 2017

**NRAO Press Release** : *VLA Gives Deep, Detailed Image of Distant Universe*, April 2013

**Telescope  
Proposals**

**Total: 25**  
**PI: 6**

Primary-investigator on 2 and Co-Author on 2 GMRT proposals  
 Primary-investigator on 2 and Co-Author on 1 ALMA proposals  
 Primary-investigator on 1 and Co-author on 7 VLA proposals  
 Primary-investigator on 1 and Co-Author on 3 ATCA proposals  
 Co-Author on 3 LOFAR proposal  
 Co-Author on 1 MeerKAT proposal  
 Co-Author on 1 Gemini proposal  
 Co-Author on 1 *Chandra* proposal

**Teaching &  
Student  
Supervision**

Years of Teaching Experience: 8  
 Number of Courses as TA: 10  
 Number of graduate students co-supervised): 2  
 Number of undergraduate students (summer or senior thesis)): 4

Co-supervisor Western Sydney university PhD student, 2021- Present  
 Lecturer, ATNF Radio School (Oct 2019)  
 Supervisor CASS summer student research project (summer 2020/2021)  
 Supervisor CASS summer student research project (summer 2019/2020)  
 Co-supervisor University of Toronto student undergraduate senior research project (2016 – 2017)  
 Supervisor University of Toronto summer student research project (summer 2017)  
 Dunlap Instrumentation Summer School Lab/Tutorial leader (August 2016)  
 Guest Lecture, ASTR 309 - Galaxies (2013, 2014)  
 Guest Lecture, ASTR 311 - Stars and Galaxies For Arts Students (2013)

School	Course Title	Course Type		
		Tutorial	Lab	Marking
UBC	Galactic Astronomy	X		X
	Statistics for Astronomers			X
	History and Philosophy of Physics	X		X
	Stars and Galaxies For Arts Students**	X		X
	Frontiers of Astronomy			X
	Introduction to Stars and Galaxies	X	X	X
	Introduction to the Solar System	X	X	X
	Introductory Physics		X	X

\*\*Special TA position as part of the Carl Wieman Science Education Initiative,  
<http://www.cwsei.ubc.ca>

**Observing  
Experience**

Duty Astronomer for ATCA : 2019 - Present  
 GMRT – remote obs. – May 2014

VLA – remote obs. – Feb 2012, Feb 2014, Feb 2019

ATCA – onsite obs. – May 2012

**Participation & Peer Reviewer for Journals:**

**Community Service**

- *The Astrophysical Journal*
- *Monthly Notices of the Royal Astronomical Society*
- *Galaxies*
- *Publications of the Astronomical Society of the Pacific*

Co-Organizer de Laeter Colloquium Series & CASS/ATNF Colloquia (May 2019 - Present)

EMU Member of ASKAP Commissioning and Early Science Team (Oct 2020 - Present)

Scientific Reader for the ATNF Time Allocation Committee (Dec 2018 - Present)

Member Curtin University Astronomy Postdoc hiring committee (Feb 2020)

Scientific Reader for the e-MERLIN Time Allocation Committee (Aug 2019)

Member CSIRO Astronomy Postdoc hiring committee (July 2019)

Member Scientific Organising Committee Jasper Wall 75th Birthday Meeting (2018)

Co-Organizer for NRAO Community days Workshop at University of Toronto (2018)

Member of Dunlap Institute Summer School admissions committee (2017)

Postdoc representative on the Dunlap Management Committee (2015 - 2017)

Member Dunlap/Gaensler Postdoc hiring committee (2015)

Volunteer Judge for undergraduate posters Chambliss Award 225<sup>th</sup> AAS Meeting (2015)

Participant in UBC (Physics and Astronomy) 3 Minute Thesis Competition (2014)

Mentor in Physics and Astronomy UBC mentorship Program (2012-2014)

Member of Canadian Astronomical Society (CASCA) 2013 Meeting Local Organizing Committee (2012-2013)

- Additionally: Lead Volunteer /Volunteer Coordinator

Co-Organizer of the CASCA Graduate Student Workshop (2013)

Judge for Astronomy Talks, Canadian Undergraduate Physics Conference (2012)

Organizer BC Astronomy Winter Retreat (2012)

**Public Outreach**

Astrofest WA Volunteer: Perth, WA (Feb 2019)

Public Lecture: University of Toronto (May 2017)

Summer Science Camp teacher: UBC (summer 2011 - 2014)

Public Lecture: UBC Astronomy Club (March 2012)

Public Observing Nights: UBC (Fall 2009)

Public Observing Nights: University of Minnesota (2007-2009)

- Computer Software**
- Software (Astronomy):
- CASA, Miriad, AIPS, OBIT, WSclean, DDFacet, DS9, Aegean, Bane, PyBDSM, ASKAPSoft, WCStools, TOPCAT, Pymoresane, DDFacet, killMS, swarp, Glue, Latex
- Computer Languages:
- Python, Fortran, IDL, shell/Bash/Tcsh scripting, C++
- References**
- Prof. Bryan Gaensler**  
**e-mail:** [bryan.gaensler@utoronto.ca](mailto:bryan.gaensler@utoronto.ca)
- Director of the [Dunlap Institute](#)
  - ◇ University of Toronto; Toronto, ON, Canada
- Dr. George Heald**  
**e-mail:** [george.heald@csiro.au](mailto:george.heald@csiro.au)
- OCE Science Leader, CSIRO Astronomy Space Science (CASS)
  - ◇ CASS; Kensington, WA, Australia
- Prof. Ray Norris** e-mail: [Ray.Norris@westernsydney.edu.au](mailto:Ray.Norris@westernsydney.edu.au)
- Professor at [Western Sydney University](#) and [CSIRO Astronomy & Space Science](#)
  - ◇ Western Sydney University; Sydney, NSW, Australia
- Prof. Jasper Wall**  
**e-mail:** [jvw@phas.ubc.ca](mailto:jvw@phas.ubc.ca)
- Professor at the [Department of Physics and Astronomy](#)
  - ◇ University of British Columbia; Vancouver, BC, Canada
- Refereed Journal Publications (Full)**
- As of May 2021:
- Total: 25**  
**First Author: 9**  
**h-index: 14**
- Link to ADS search results - <http://tinyurl.com/ybo95szx>**  
**ORCID : <https://orcid.org/0000-0001-7093-3875>**
1. The eROSITA View of the Abell 3391/95 Field: The Northern Clump  
 Veronica, A.,+20 coauthors. **Vernstrom, T.**  
 Submitted to A&A May 2021
  2. The Evolutionary Map of the Universe Pilot Survey  
 Norris, R., Marvil, J., Collier, J., **Vernstrom, T.**,+48 coauthors  
 Submitted to PASA May 2021
  3. Characterization of the AARTFAAC-12 aperture array: radio source counts at 42 and 61 MHz  
 Shulevski, A., Franzen, T.M.O, Williams, W.L., **Vernstrom, T.**, Gehlot, B.K., Kuiack, M., Wijers, R.  
 Submitted to MNRAS March 2021  
[arxiv:2103.15160](https://arxiv.org/abs/2103.15160)
  4. Discovery of Magnetic Fields Along Stacked Cosmic Filaments as Revealed by Radio and X-Ray Emission  
**Vernstrom, T.**, Heald, G. ,Vazza., F., Galvin, T., West, J., Locatelli, N., Fornengo, N., Pinetti, E.

Accepted to MNRAS April 2021

doi:[10.1093/mnras/stab1301](https://doi.org/10.1093/mnras/stab1301)

Citations: 4

5. The Galactic Faraday Rotation Sky 2020  
Hutschenreuter, S, + 10 Co-authors, **Vernstrom, T.**,  
Submitted to Astronomy & Astrophysics February 2021  
[arxiv:2102.01709](https://arxiv.org/abs/2102.01709)  
Citations: 1
6. Constraints On Large-Scale Magnetic Fields In The Intergalactic Medium Using Cross-Correlation Methods  
Amaral, A.D., **Vernstrom, T.**, Gaensler, B.M.  
*Monthly Notices of the Royal Astronomical Society*, 503 (2021)  
doi:[10.1093/mnras/stab564](https://doi.org/10.1093/mnras/stab564)  
Citations: 1
7. Low(er) frequency follow-up of 28 candidate, large-scale synchrotron sources  
Hodgson, T., Johnston-Hollitt, M., McKinley, B. **Vernstrom, T.**, Vacca, V.  
*Publications of the Astronomical Society of Australia*, 37, e032 (2020)  
doi:[10.1017/pasa.2020.26](https://doi.org/10.1017/pasa.2020.26)  
Citations: 3
8. New constraints on the magnetization of the cosmic web using LOFAR Faraday rotation observations  
O'Sullivan, S.P., Bruggen, M., Vazza, F., Carretti, E., Locatelli, N., Stuardi, C. ,Vacca, V.,  
**Vernstrom, T.**, Heald, G., Horellou, C. , Shimwell, T.W., Hardcastle, M.J., Tasse, C.,  
Rottgering, H.  
*Monthly Notices of the Royal Astronomical Society*, 495 (2020)  
doi:[10.1093/mnras/staa1395](https://doi.org/10.1093/mnras/staa1395)  
Citations: 18
9. The POLarised GLEAM Survey (POGS) II: Results from an all-sky rotation measure synthesis survey at long wavelengths  
Riseley, C. J., Galvin T. J, Sobey, C. **Vernstrom, T.**, +10 coauthors  
*Publications of the Astronomical Society of Australia*, 337 (2020)  
doi:[10.1017/pasa.2020.20](https://doi.org/10.1017/pasa.2020.20)  
Citations: 7
10. Unveiling the cause of hybrid morphology radio sources  
Harwood, J., **Vernstrom, T.**, Stroe, A.  
*Monthly Notices of the Royal Astronomical Society*, 491 (2019)  
doi:[10.1093/mnras/stz3069](https://doi.org/10.1093/mnras/stz3069)  
Citations: 9
11. Science with the Murchison Widefield Array: Phase I Results and Phase II Opportunities  
Beardsley, A.P., + 55 co-authors, **Vernstrom, T.**  
*Publications of the Astronomical Society of Australia*, 36 (2019)  
doi:[10.1017/pasa.2019.41](https://doi.org/10.1017/pasa.2019.41)  
Citations: 23
12. Differences in Faraday Rotation Between Adjacent Extragalactic Radio Sources as a Probe of Cosmic Magnetic Fields  
**Vernstrom, T.**, Gaensler, B., Rudnick, L., Andernach, H.  
*Astrophysical Journal*, 878 (2019)  
doi:[10.3847/1538-4357/ab1f83](https://doi.org/10.3847/1538-4357/ab1f83)  
Citations: 16
13. Source counts and confusion at 72-231 MHz in the MWA GLEAM survey  
Franzen, T.M.O., **Vernstrom, T.**, +24 coauthors  
*Publications of the Astronomical Society of Australia*, 36 (2019)  
doi:[10.1017/pasa.2018.52](https://doi.org/10.1017/pasa.2018.52)  
Citations: 12



14. The Intergalactic Magnetic Field Probed by a Giant Radio Galaxy  
O'Sullivan, S.P., + 26 coauthors, **Vernstrom, T.**  
*Astronomy & Astrophysics*, 622 (2019)  
doi:[10.1051/0004-6361/201833832](https://doi.org/10.1051/0004-6361/201833832)  
Citations: **25**
15. Radio Polarization Properties of Quasars and Active Galaxies at High Redshifts  
**Vernstrom, T.**, Gaensler, B. M., Vacca, V., Farnes, J.S., Haverkorn, M., O'Sullivan, S.P.  
*Monthly Notices of the Royal Astronomical Society*, 475 (2018)  
doi:[10.1093/mnras/stx3191](https://doi.org/10.1093/mnras/stx3191)  
Citations: **7**
16. The Angular Size Distribution of  $\mu$ Jy Radio Sources  
Cotton, W.D., Condon, J.J., Kellermann, K.I., Lacy, M., Perley, R.A., Matthews, A.,  
**Vernstrom, T.**, Scott, D., Wall, J.V.  
*Astrophysical Journal*, 856, 67C (2018)  
doi:[10.3847/1538-4357/aaec4](https://doi.org/10.3847/1538-4357/aaec4)  
Citations: **18**
17. Limiting Magnetic Fields in the Cosmic Web with Diffuse Radio Emission  
Brown, S., **Vernstrom, T.**, Carretti, E., Dolag, K., Gaensler, B. M., Staveley-Smith, L.,  
Bernardi, G., Haverkorn, M., Kesteven, M., Poppi, S.  
*Monthly Notices of the Royal Astronomical Society*, 468 (2017)  
doi:[10.1093/mnras/stx746](https://doi.org/10.1093/mnras/stx746)  
Citations: **32**
18. Low Frequency Radio Constraints on the Synchrotron Cosmic Web  
**Vernstrom, T.**, Gaensler, B. M., Brown, S., Lenc, E., Norris, R. P.  
*Monthly Notices of the Royal Astronomical Society*, 467 (2017)  
doi:[10.1093/mnras/stx424](https://doi.org/10.1093/mnras/stx424)  
Citations: **38**
19. A deep ALMA image of the Hubble Ultra Deep Fields  
Dunlop, J.S. +35 co-authors, **Vernstrom, T.**  
*Monthly Notices of the Royal Astronomical Society*, 466 (2017)  
doi:[10.1093/mnras/stw3088](https://doi.org/10.1093/mnras/stw3088)  
Citations: **235**
20. Deep 3 GHz Observations of the Lockman Hole North with the Very Large Array - 2. Catalogue and  $\mu$ Jy source properties  
**Vernstrom, T.**, Douglas Scott, J.V. Wall, J.J. Condon, W.D. Cotton, K.I. Kellermann,  
R.A. Perley  
*Monthly Notices of the Royal Astronomical Society*, 462 (2016)  
doi:[10.1093/mnras/stw1836](https://doi.org/10.1093/mnras/stw1836)  
Citations: **22**
21. Deep 3 GHz Observations of the Lockman Hole North with the Very Large Array - 1. Source extraction and uncertainty analysis  
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*Monthly Notices of the Royal Astronomical Society*, 461 (2016)  
doi:[10.1093/mnras/stw1530](https://doi.org/10.1093/mnras/stw1530)  
Citations: **9**
22. The Deep Diffuse Extragalactic Radio Sky at 1.75 GHz  
**Vernstrom, T.**, Norris, Ray P., Scott, Douglas, Wall, J.V.  
*Monthly Notices of the Royal Astronomical Society*, 447 (2015)  
doi:[10.1093/mnras/stu2595](https://doi.org/10.1093/mnras/stu2595)  
Citations: **30**
23. Deep 3 GHz Number Counts from a  $P(D)$  Fluctuation Analysis  
**Vernstrom, T.**, Douglas Scott, J.V. Wall, J.J. Condon, W.D. Cotton, E.B. Fomalont, K.I.

Kellermann, N. Miller, R.A. Perley  
*Monthly Notices of the Royal Astronomical Society*, 404 (2014)  
 doi:[10.1093/mnras/stu470](https://doi.org/10.1093/mnras/stu470)  
 Citations: **58**

24. Resolving the Radio Source Background: Deeper Understanding through Confusion  
 Condon, J.J., Cotton, W.D., Fomalont, E. B., Kellerman, K., Miller, N., Perley, R.A., Scott, D., **Vernstrom, T.**, Wall, J.V.  
*Astrophysical Journal*, 758, 23C (2012)  
 doi:[10.1088/0004-637X/758/1/23](https://doi.org/10.1088/0004-637X/758/1/23)  
 Citations: **151**
25. Contribution to the Diffuse Radio Background from Extragalactic Radio Sources  
**Vernstrom, T.**, Scott, Douglas., & Wall, J.V.  
*Monthly Notices of the Royal Astronomical Society*, 415 (2011)  
 doi:[10.1111/j.1365-2966.2011.18990.x](https://doi.org/10.1111/j.1365-2966.2011.18990.x)  
 Citations: **41**

**Talks and  
 Posters (Full)**

**Invited Talks: 11**  
**Colloquia: 9**  
**Contributed Talks: 14**  
**Posters: 3**

1. **Colloquium:** Harvard CfA Clusters Seminar, Virtual, June 2021
2. **Invited Talk:** ASTRON Seminar, Virtual, March 2021
3. **Contributed Talk:** SKA Science Meeting; Virtual, March 2021
4. **Colloquium:** Swinburne University, Melbourne, AU Oct 2020
5. **Invited Talk:** Australia-ESO Joint Conference; Perth, AU. Feb 2020
6. **Invited Talk:** MWA Users Meeting; Arizona, US. Dec 2019
7. **Invited Talk:** CSIRO/ATNF Radio Interferometry Summer School; Narrabri, Au. Oct 2019
8. **Colloquium:** CSIRO Astronomy Colloquium; Sydney, Australia. Aug 2019
9. **Contributed Talk:** Astronomical Society of Australia Meeting; Brisbane, Australia. July 2019
10. **Invited Talk:** MWA Users Meeting; Rhode Island, US. June 2019
11. **Contributed Talk:** SPARCS IX; Lisbon, Portugal. May 2019
12. **Contributed Talk:** SKA Science Meeting; Manchester, UK April 2019
13. **Contributed Talk:** Jasper Wall 75th Birthday Conference; Vancouver, Canada Dec 2018
14. **Colloquium:** NRC Herzberg; Victoria, Canada. Mar 2018
15. **Colloquium:** University of British Columbia; Vancouver, Canada. Mar 2018
16. **Invited Talk:** Science at Low Frequencies; Sydney, Australia. Dec 2017
17. **Colloquium:** Queens University; Kingston, Canada. Nov 2017
18. **Invited Talk:** Diffuse Synchrotron Emission in Clusters of Galaxies meeting; Leiden, Netherlands. Oct 2017
19. **Invited Talk:** Canadian Radio Astronomy Workshop; Montreal, Canada. Sep 2017
20. **Invited Talk:** The Radio Synchrotron Background Workshop; Virginia, US. Jul 2017
21. **Colloquium:** Osservatorio Astronomico Cagliari; Sardinia, Italy. Jun 2017
22. **Colloquium:** INAF Radio Astronomy Institute; Bologna, Italy. Jun 2017
23. **Contributed Talk:** Science at Low Frequencies III; California, US. Dec 2016
24. **Contributed Talk:** SKA meeting; Goa, India. Nov 2016
25. **Contributed Talk:** SPARCS 2016; Goa, India. Nov 2016
26. **Contributed Talk:** ASKAP meeting; Sydney, Australia. Jun 2016
27. **Poster:** MeerKAT meeting; Stellenbosch, South Africa. May 2016

28. **Contributed Talk:** MWA Annual Project Meeting; Toronto, Canada. Dec 2015
29. **Invited Talk:** SPARCS 2015; Kruger Park, South Africa, Jul 2015
30. **Contributed Talk:** 225<sup>th</sup> AAS Meeting; Washington, US. Jan 2015
31. **Contributed Talk:** Joint UBC/SFU/TRIUMF Cosmology Meeting; Vancouver, Canada. Oct 2014
32. **Colloquium:** University of Minnesota; Minnesota, US. Oct 2014
33. **Invited Talk:** KICP High Energy Messengers: Connecting the Non-Thermal Extragalactic Backgrounds; Illinois, US. Jun 2014
34. **Contributed Talk:** CASCA; Vancouver, Canada. May 2013
35. **Contributed Talk:** The Modern Radio Universe; Bonn, Germany. April 2013
36. **Poster Presentation:** Cosmology for the Next Generation; Cancun, Mexico. Jan 2012
37. **Poster Presentation:** 217<sup>th</sup> AAS Meeting; Washington, US. Jan 2011.