CURRICULUM VITAE

BRYAN BUTLER

Education

B.S. (double major - Computer Science; Electrical Engineering),
Utah State University, 1989
B.S. minors: Math; Physics
Magna Cum Laude
M.S. (Planetary Science), California Institute of Technology, 1991
Ph.D. (Planetary Science), California Institute of Technology, 1994
Thesis: 3.5-cm Radar Investigation of Mars and Mercury:
Planetological Implications
Ph.D. minor: Computer Science

Awards and Honors

Utah State University Club Scholarship, 1983-1987
National Merit Scholarship, 1983-1987
Outstanding Sophomore Physics Student at USU, 1984
Collegiate Academic All-American, 1986-1988
E.C. Anthony Fellowship, Caltech, 1989
Outstanding Student Paper, 1989 Fall Meeting of the AGU,
Planetology Section
Lewis A. Kingsley Fellowship, Caltech, 1991

Professional Experience

Programmer, Center for Space Engineering at USU, 1986-1988
Graduate Teaching Assistant, Caltech, 1989-1992
Graduate Research Assistant, Caltech, 1988-1994
Member of the Technical Staff, Jet Propulsion Lab, 1991, 1992
National Radio Astronomy Observatory, 1994-present
Jansky Postdoc, 1994-1997
Assistant Scientist, 1997-2000
Associate Scientist, 2000-2003
Scientist, 2003-2005
Scientist, Continuing Appointment, 2005-present
positions/duties/groups:
Member of ALMA Science IPT, 1998-2004
Member of Data Management Science Working Group, 2000-2002
Head of ALMA Calibration Group, 2002-2004
Member of Scientist Performance Review Committee: Computational Science (SPRC-CS), 2008-2013
Member of Observatory Science and Technical Council, 2011-2017
EVLA Project Scientist for Software, 2004-2005
EVLA System Engineer for Software, 2005-2006
EVLA Computing Division Head, 2006-2013
Group Lead: VLA/VLBA Science Support Group, 2013-2016
Division Head: VLA/VLBA Science Support Division, 2016-2020
Calibration Lead: ngVLA Project, 2020-2022

Professional Activities

Member: AAS (and DPS), AGU, URSI, IAU

Referee: Science, Nature, Icarus, JGR, Radio Sci., GRL, Ad.Sp.R, A&A, ApJ, ApJL

Chaired sessions at national and international URSI, DPS and LPSC meetings.

Reviewed proposals for Arecibo and JCMT telescope time.

Reviewed proposals for NASA PG&G (panel), LSSO (panel), MFRP (panel), LASER (panel), DALI (panel), PAST (remote), PIDDP (remote), ROSES20 (remote) programs; on committees to select participating scientists for MARSIS, Kepler, and LRO missions; on committees to select New Frontiers mission; on committees to select Discovery missions; PI, Co-I or Collaborator on many NASA grants; science Co-I on SAR instruments for Chandrayaan-1 and LRO missions; science instruments for Chandrayaan-1 and LRO missions; science Co-I on New Horizons mission.

Publications

Refereed journal articles: 70; 5 first author.

More than 6000 citations (highest for one paper 486); h-index 35; g-index 76.

Conference proceedings, book chapters, white papers: 34; 12 first author.

NRAO memos: 48; 33 first author.

Abstracts: 188; 58 first author.

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Altenhoff, W.J., & 20 others, Coordinated Radio Continuum Observations of Comets Hyakutake and Hale-Bopp from 22 to 860 GHz, *A&A, 348*, 1020-1034, 1999

Bassa, C.G., & 18 others, FRB 121102 Is Coincident with a Star-forming Region in Its Host Galaxy, *ApJL, 843*, L8, 2017

Bhandari, S., & 25 others, Characterizing the Fast Radio Burst Host Population and its Connection to Transients in the Local and Extragalactic Universe, *AJ, 163*, 69, 2022

Bower, G.C., & 11 others, A Search for Molecular Gas in the Host Galaxy of FRB 121102, *AJ, 155*, id.227, 2018

Brown, M.E., & B.J. Butler, Medium-sized Satellites of Large Kuiper Belt Objects, *AJ, 156*, id.164, 2018

Brown, M.E., & B.J. Butler, The Density of Mid-sized Kuiper Belt Objects from ALMA Thermal Observations, *AJ, 154*, 19, 2017

Butler, B.J., D.B. Campbell, I. de Pater, & D.E. Gary, Solar System Science with SKA, *New Astron. Rev., 48*, 1511-1535, 2004

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Butler, B.J., The Migration of Volatiles on the Surfaces of Mercury and the Moon, *JGR, 102*, 19283-19291, 1997

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Chatterjee, S., & 24 others, A direct localization of a fast radio burst and its host, *Nature, 541*, 58-61, 2017

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de Kleer, K., & 6 others, Ganymede's Surface Properties from Millimeter and Infrared Thermal Emission, *PSJ, 2*, id.5, 2021

de Pater, I., & 17 others, First ALMA Millimeter-wavelength Maps of Jupiter, with a Multiwavelength Study of Convection, *AJ, 158*, id.139, 2019

de Pater, I., & 5 others, Jupiter's ammonia distribution derived from VLA maps at 3-37 GHz *Icarus, 322*, 168-191, 2019

de Pater, I., R.J. Sault, B. Butler, D. DeBoer, & M.H. Wong, Peering through Jupiters clouds with radio spectral imaging, *Science, 352*, 1198-1201, 2016

de Pater, I., & 8 others, Neptune's global circulation deduced from multi-wavelength observations, *Icarus, 237*, 211-238, 2014

de Pater, I., & 13 others, Jupiter's Radio Spectrum from 74 MHz up to 8 GHz, *Icarus, 163*, 434-448, 2003

de Pater, I., & B.J. Butler, Low Frequency VLA Observations of Jupiter, *Icarus, 163*, 428-433, 2003

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Chandler, C.J., & B.J. Butler, Commissioning and operation of the new Karl G. Jansky Very Large Array, *Proc. SPIE, 9149*, 914917/9, 2014

de Kleer, K., & 12 others, Mapping satellite surfaces and atmospheres with ground-based radio interferometry, white paper submitted to *Planetary Science and Astrobiology Decadal Survey 2023-2032*, 2020

de Pater, I., & 12 others, Prospects to study the Ice Giants with the ngVLA, white paper submitted to *Planetary Science and Astrobiology Decadal Survey 2023-2032*, 2020

de Pater, I., & 8 others, Potential for Solar System Science with the ngVLA, in *Science with a Next Generation Very Large Array*, ed. E. Murphy, p.49, ASP Conference Series, 517, 2018

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NRAO MEMOS

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Butler, B.J., Preliminary ngVLA Observing Band Availability Estimate, ngVLA Memo 73, 2019

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ABSTRACTS

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