

**Dr. Gerard T. van Belle**  
**Curriculum Vitae**

Lowell Observatory  
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**Experience:**

*Lowell Observatory, Flagstaff, AZ. **Director of***

**Science** (tenured), 2024-present. In charge the more than two dozen Lowell science staff:

supporting science research, institutional resource allocation, mentoring staff at all levels, and developing personnel policy. Serving on the Executive Leadership Team: directing observatory strategy and management, philanthropic representation of the institution, and financial modeling. Representation of the observatory via multiple public presentations and media engagements each quarter.

**Astronomer**, 2011-present. On staff with the observatory with a primary focus in researching fundamental stellar parameters, developing astronomical interferometry with optical interferometers, and carrying out high-resolution imaging programs with the Lowell Discovery Telescope (LDT). This included frequent public speaking engagements, proposal and journal article writing, budget management, contract oversight, and creative & entrepreneurial development of novel business ideas. Tenure granted in 2014.

*European Southern Observatory, Garching bei München, Germany. **PRIMA Instrument Scientist***, 2007-2011. Responsible for the scientific development and use of the PRIMA (Phase-Referenced Imaging and Microarcsecond Astrometry) facility of ESO's Very Large Telescope Interferometer, including instrument implementation and commissioning. Member of the ESO Astronomy faculty.

**MATISSE Instrument Scientist**, 2010-2011. Oversaw instrument development for MATISSE (Multi-AperTure mid-Infrared SpectroScopic Experiment) and progress towards delivery, including development of multinational institutional agreements for budgets and deliverables.

*Michelson Science Center, California Institute of Technology, Pasadena, CA. **Science Community Development Lead***, 2002-2007. Responsible for administration of the Michelson Program at the MSC and coordination of scientific use of NASA time of the Keck telescopes, including proposal review, grant administration, and policy development and implementation. Additional activities include oversight of the Michelson Summer Workshop, administration of the NASA Keck-IRTF management and operations working group, and independent scientific research. Member of the Caltech Professional Staff.

*NASA Jet Propulsion Laboratory, Pasadena, CA. **Senior Optical Engineer***, Interferometry Technology Group, 1996-2002. Beginning with designing the basic optical layout of the Keck Interferometer, duties included delay line and transport optic design, heavy construction of the interferometer facility, ensuing instrument installation, and scientific utilization of the interferometer. Additionally, scientific observations with the Palomar Testbed Interferometer included size and shape characterizations of nearby stars. Member of the Technical Staff.

*Saint Mary's College of Maryland, Saint Mary's City, MD. **Visiting Lecturer***, Department of Physics, 1991.

*Intermec Corporation, Everett, WA. **Engineering Intern***, Product Quality Assurance Department, 1990.

*Harvey Mudd College, Claremont, CA. **Research Assistant***, Department of Physics, 1989.

## **Education:**

*University of Wyoming, Laramie, WY. **Ph.D. in Physics** 1996. Advisor: H. Melvin Dyck.*  
Dissertation: Angular Size Measurements of Highly Evolved Stars. Made use of the IOTA interferometer to measure the angular sizes and derived fundamental quantities, such as effective temperature and linear radius, for highly evolved stars, including giant stars, supergiant stars, and Mira variable stars.

*The Johns Hopkins University, Baltimore, MD. **M.A. in Physics**, 1993. Advisor: Paul D. Feldman. Thesis: Analysis of CO<sub>2</sub><sup>+</sup> Features in Comet P/Halley Derived from Ultraviolet Spectrophotometry by ASTRON. The degree of asymmetry in the distribution of CO<sub>2</sub><sup>+</sup> emitted from Comet P/Halley's nucleus was measured, both prior to and after perihelion in 1986, observing molecular bands found in the 250-350 nm wavelength regime with the ASTRON spacecraft. Additional work at JHU included instrument design, hands-on machine shop construction, and engineering support for the sounding rocket program, both on campus and at NASA Wallops Flight Facility.*

*Whitman College, Walla Walla, WA. **B.A. with honors in Physics–Astronomy**, minor in Mathematics, 1990. Advisor: Katherine Bracher.*

*Watson Groen Christian School (now known as Shoreline Christian School), Seattle, WA. Class of 1986.*

## **Research Teams (recent):**

MoonLITE (*Lunar InTerferometry Express*) *Proposal Team*, 2022-present. **Principal Investigator** for a NASA Astrophysics Pioneers proposal to deploy an optical astronomical interferometer on the lunar surface via a Commercial Lunar Payload Services (CLPS) lander delivery. Initiated and led proposal development, including science team recruitment, development of science and technical requirements, and budgets and schedules.

QWSSI (*Quad-camera, Wave-front-sensing, Six-wavelength-channel Speckle Interferometer*), 2018-present. **Principal Investigator** for a high-speed speckle imager on the Lowell Discovery Telescope. Initiated instrument development; proposal, schedule, and budget development; optical and mechanical design; fabrication, construction, and alignment; commissioning and upgrades; and ongoing scientific use.

*Navy Precision Optical Interferometer (NPOI)*, 2011-2022. Lowell Observatory's **Principal Investigator** for its participation in the NPOI consortium, with an emphasis on milliarcsecond-scale optical imaging for Space Domain Awareness (SDA) and astrophysical science applications. Additional roles included **Director**, 2017-2018, and **Chief Scientist**, NPOI, 2018-2022. Oversaw facility development; proposal, schedule, and budget development; personnel hiring and management; optical and mechanical design; fabrication, construction, and alignment of instrumentation; commissioning and upgrades; and ongoing scientific use.

## **Additional Research Teams:**

Principal Investigator, The Big Fringe Telescope, 2024-present

CHARA Array SILMARIL Commissioning Team, 2022-2024

Planet Formation Imager Kick-Off Committee member, 2013-2022

NPOI-VISION Commissioning Team, 2013-2016

VLTI PRIMA Instrument Group, ESO, 2007-2011, and MATISSE Instrument Group, 2011

CHARA Array MIRC Commissioning Team, 2007

Spitzer Precision MIPS Photometry Team, 2006-2008

"Cataclysmic Variables in the Infrared Cartel", 2005-2014

CHARA Array “Classic” Commissioning Team, 2005  
Keck Interferometer Design & Commissioning Team, 1996-2002  
Palomar Testbed Interferometer Collaboration 1997-present  
IR-Optical Telescope Array (IOTA) group, 1994-1998  
Johns Hopkins Sounding Rocket Group, 1992-1993

**Funded Research Proposals:**

*Lowell Slipper Society Award*, \$2,269, Page charges for Giant Star Paper, 2022  
*Lowell Slipper Society Award*, \$24,059, support for grad student Catherine Clark, 2022/05 – 2022-08  
*NSF AAG, “A Reference Set for Miras”*, \$75,161 (Lowell portion), 2022  
*Imaging High-Altitude Satellites with Next-Generation Detectors*, \$116,560, DoD DURIP award, 06/15/2022 – 06/14/2023  
*Lowell Slipper Society Award*, \$2,495, Automated software for TiMo, 2020  
*Precision In-Space Manufacturing for Structurally-Connected Space Interferometry*, NASA SBIR Phase II Award, \$86,099 (Lowell share), with Made in Space (now Redwire Space, Inc.), 2019  
*High Sensitivity Observations of Geostationary Satellites at High Spatial Resolution II*, Naval Research Laboratory, \$11M (capital construction, awarded), \$30M cap (2019/10-2022/12, R&D)  
*Imaging High-Altitude Satellites with Near-IR Speckle Imagers*, \$73,100, DoD DURIP award, 06/15/2018 – 06/14/2019  
*Imaging High-Altitude Satellites with Speckle Imagers*, \$169,500, DoD DURIP award, 06/15/2018 – 06/14/2019  
*Titan Monitoring Telescope*, \$100,000, NASA NNX11AH46G (2018/09 – 2019/09)  
*High Sensitivity Observations of Geostationary Satellites at High Spatial Resolution*, Naval Research Laboratory, \$3.268M (2016/10-2018/09, capital construction, awarded), \$3.821M (2016/10-2021/09, R&D)  
*LDT Survey of X-type Asteroids*, grant from Observatory Cote d’Azur, \$28,000 (2020), \$30,000 (2021)  
*NESSI Survey of Potential Low-Mass Exoplanet Hosts*, JPL RSA 1569545 & 1580984, \$6,300 and \$8,300, 2017/02-2019/01 & 2017/08-2019/07  
*Nearby M-Dwarf Multiplicity Survey*, NSF AST-1616084, 2016/09-2019/08, \$580,497 award  
AAS International Travel Grant for IAU General Assembly, 2015-08, \$1,050 award  
IAU Travel Grant for IAU Symposium 307, “New Windows on Massive Stars: Asteroseismology, Interferometry, Spectropolarimetry”, 2014-06, 750€ award  
*High-Resolution Imaging of Stellar Surfaces*, NSF AST-1310800, 2013/10-2016/09, \$77,764 subaward (out of \$555,000 total to PI Anders Jorgensen, NMT)  
*High Precision, Directly Determined Radii and Effective Temperatures for Giant Stars*, NASA NNX13AF01G, 2012/01-2014/01, \$233,800  
*High Precision, Directly Determined Radii and Effective Temperatures for Giant Stars*, NSF AST-1212203, 2011/09-2015/08, \$341,760  
AAS International Travel Grant for IAU General Assembly, 2012-09, \$1,800; and NAI travel grant for IAU GA, \$1,500  
*Diameters of Faint M-Dwarfs*, NASA Keck Interferometer, PI: G. van Belle, 1 night of Keck-Keck time, 2012A, \$18,000  
*Distances to Eclipsing M Dwarf Binaries*, HST Cycle 16 (2007, ID: HST-GO-11213), PI: G. van Belle, 35 orbits, \$135,000  
*Testing Repeatable High-Precision Time Series Photometry with Spitzer: Observations of the Eclipsing Binary GU Bootes*, Spitzer DDT (2005-04, ID:GUBOO/259), PI: G. van Belle, 9 hours time, \$11,000

### **Awards / Honors:**

NAU College of Engineering, Informatics and Applied Sciences "Above and Beyond" Award, recognizing outstanding student internship experiences, August 2020  
Significant Sig Award, Sigma Chi Fraternity, Chicago, IL, June 2018  
"Communication and Leadership Award", Toastmasters International, Flagstaff Conference Nov 3-5, 2017  
Asteroid 25155 van Belle (1998 SA<sub>55</sub>), named in 2015  
Lowell Observatory Employee of the Year, December 2013  
JPL Edward Stone Award for Outstanding Research Publication, for Altair oblateness article (see 2001 ApJ article in publications list), March 2002  
JPL Award for Excellence, as a member of the Keck Interferometer Development Team, for first fringes, May 2001  
Outstanding Graduate Research Award, Department of Physics & Astronomy, University of Wyoming, May 1996  
Graduated with Honors in Physics-Astronomy, Whitman College, May 1990  
Balfour Award, for Outstanding Senior Class Member, from the Gamma Epsilon chapter of the Sigma Chi Fraternity, May 1990

### **Selected Recent Public Engagements:**

Dr. van Belle has been averaging 3-6 public engagements per year for the past decade; press engagements can be found [online](#):  
Off-Nominal, podcast, September 2024  
Local Host, Arizona Space Business Roundtable, Flagstaff, AZ, August 2023  
"A Day in the Life of an Astronomer", invited talk, Westminster Village Retirement Community, Phoenix, AZ, February 2023  
Solve-it For Kids, podcast, July 2022  
Cosmic Controversy, podcast by Bruce Dorminey, Forbes, July 2020  
"Dialogue Earth", listed co-star in a feature-length documentary about artist Ulrike Arnold, 2019  
Space Astrophysics Landscape for the 2020s and Beyond, NASA HQ workshop, "Optical Interferometry in Space", invited talk, Potomac, MD, April 2019  
Astronomy on Tap, "In-Space Manufacturing of Mega-Telescopes", Flagstaff, AZ, March 2019  
SETI panel, World Science Fiction Convention, with David Brin and Douglas Van Belle, San Jose, CA, August 2018  
TEDx in LA, "Bridges into Space", LA Community College, CA, May 2018  
Museum of Mathematics, "Music of the Spheres: Astronomy, Math, and Sound", New York City, NY, May 2018  
Additionally, Dr. van Belle has been averaging 20 scientific presentations (colloquia, etc.) per year since 2012.

### **Selected Community Service:**

Science Organizing Committee, Cool Stars 22, San Diego, CA, June 2024  
CHARA observatory Time Allocation Committee, virtual, May 2023, May 2024  
National Science Foundation Astronomy Committee of Visitors, Arlington, VA, July 2023  
NASA APRA proposal review panel, virtual, March 2021, March 2022, March 2023  
NOIRlab Time Allocation Committee, virtual, November 2021  
NASA Keck Key Strategic Mission Support panel, virtual, October 2021  
NASA XRP proposal review panel, Pasadena, CA, July 2019, July 2020  
NASA SMEX MO proposal review panel, Washington, DC, December 2019  
Dunlap Summer School on Instrumentation, guest lecturer, University of Toronto, July 2019

*National Science Foundation MRI proposal review panel*, virtual, May 2019  
*Science Organizing Committee*, Cool Stars 20, Boston, MA, Jul/Aug 2018  
*Sagan Fellowship proposal review panel*, Jan 2016, Jan 2017, Nov 2018  
*NASA Keck Time Allocation Committee*, October 2015, April 2016, October 2016  
*NASA LBTI operations review panel*, April 2015, May 2016  
*NASA ADAP Review Panel*, June 2016  
*Science Organizing Committee*, Cool Stars 19, Uppsala, June 2016  
*Proceedings Editor*, Cool Stars 18 Workshop, 2015  
*NASA Exoplanets proposal review panel*, June 2015  
*Santander Summer School*, guest lecturer, Santiago, Chile, November 2014  
*Chair*, Cool Stars 18, Flagstaff, June 2014  
*IAU Commission 54 ("Optical and Near-Infrared Interferometry") President*, 2012-2015,  
*Vice President*, 2009-2012, *Secretary* 2006-2009  
*Science Organizing Committee*, Cool Stars 17, Barcelona, 2012  
*Science Organizing Committee Chair*, "Science with Optical Interferometry", Socorro, NM,  
March 2011  
*Science Organizing Committee*, "Science Cases for Optical and Infrared Interferometry",  
JENAM Lisbon, Portugal, September 2010  
*Science Organizing Committee*, "Origin and Fate of the Sun", Garching, Germany, March  
2010  
*Board Secretary*, VLT 2<sup>nd</sup> Generation Fringe Tracker Design Study Reviews, June 2010  
*Board Member*, VLT Gravity and MATISSE Preliminary Design Review, December 2009  
*Member (ESO representative)*, Blue Dots Team, 2008-2010  
*ESO "On the Fringe" VLT Training Schools*, Guest lecturer, 2008 (Keszthely, Hungary) and  
2010 (Porquerolles Island, Côte d'Azur, France)  
*Member*, NSF Review Panel, 2008  
*Thesis Committee Member*, for students at Georgia State University and University of  
Denver, 2008-present  
*Proceedings Editor*, Cool Stars 14 Workshop, 2007  
*PTI Time Allocation Committee*, 2002-2009  
*Local Organizing Committee Chair*, Cool Stars 14 Workshop, Pasadena, 2006  
*Science Organizing Committee*, 2005 Michelson Summer Workshop  
*Director*, 2003, 2004 Michelson Summer Schools  
*Acting Chairman (non-voting)*, NASA Keck Time Allocation Committee, 2004A and 2004B  
semesters

### **Professional Affiliations:**

Full member, American Astronomical Society  
Full member, International Astronomical Union  
Member, Society of Photo-optic Instrumentation Engineers (SPIE)

### **Selected Refereed Journal Articles:**

(as of 2025 March 1; 111 published articles since 1995 with 21 as first author, h-index of 43 with over 6,120 citations):

1. "Absolute Dimensions of the Interferometric Binary HD 174881: A Test of Stellar Evolution Models for Evolved Stars", Torres, G., Boden, A. F., Monnier, J. D., **van Belle, G. T.**, 2024 ([2024ApJ...977...43T](#))
2. "A "Wonderful" Reference Dataset of Mira Variables", Baylis-Aguirre, D. K., Creech-Eakman, M. J., **van Belle, G. T.**, 2024 ([2024Galax..12...72B](#))
3. "The POKEMON Speckle Survey of Nearby M Dwarfs. III. The Stellar Multiplicity Rate of M Dwarfs within 15 pc", Clark, C. A., **van Belle, G. T.**, et al., 2024 ([2024AJ....167..174C](#))

4. "The POKEMON Speckle Survey of Nearby M Dwarfs. II. Observations of 1125 Targets", Clark, C. A., **van Belle, G. T.**, et al., 2024 ([2024AJ....167...56C](#))
5. "The POKEMON Speckle Survey of Nearby M Dwarfs. I. New Discoveries", Clark, C. A., **van Belle, G. T.**, et al., 2022 ([2022AJ....164...33C](#))
6. "A Dearth of Close-in Stellar Companions to M-dwarf TESS Objects of Interest", Clark, C. A., **van Belle, G. T.**, et al., 2022 ([2022AJ....163..232C](#))
7. "Direct Measurements of Giant Star Effective Temperatures and Linear Radii: Calibration against Spectral Types and V - K Color", **van Belle, G. T.**, von Braun, K., et al., 2021 ([2021ApJ...922..163V](#))
8. "Determining the Rotational Period of Main-Belt Asteroid 282 Clorinde", Bonamico, R., **van Belle, G.**, 2021 ([2021MPBu...48..210B](#))
9. "HST/FGS Trigonometric Parallaxes of M-dwarf Eclipsing Binaries", **van Belle, G. T.**, Schaefer, G. H., et al., 2020 ([2020PASP..132e4201V](#))
10. "Coherent Integration in Astronomical Interferometry: Theory and Practice", Mozurkewich, D., Jorgensen, A., **van Belle, G. T.**, 2019 ([2019JAI....850005M](#))
11. "Bolometric Flux Estimation for Cool Evolved Stars", **van Belle, G. T.**, Creech-Eakman, M. J., Ruiz-Velasco, A. E., 2016 ([2016AJ....152...16V](#))
12. "Vision: A Six-telescope Fiber-fed Visible Light Beam Combiner for the Navy Precision Optical Interferometer", Garcia, E. V., Muterspaugh, M. W., **van Belle, G. T.**, et al., 2016 ([2016PASP..128e5004G](#))
13. "Stellar Diameters and Temperatures. IV. Predicting Stellar Angular Diameters", Boyajian, T. S., **van Belle, G.**, von Braun, K., 2014 ([2014AJ....147...47B](#))
14. "Intensity Interferometry for the 21ST Century", Horch, E. P., **van Belle, G.**, Genet, R. M., Holenstein, B. D., 2013 ([2013JAI....240009H](#))
15. "The PTI Carbon Star Angular Size Survey: Effective Temperatures and Non-sphericity", **van Belle, G. T.**, Paladini, C., et al., 2013 ([2013ApJ...775...45V](#))
16. "Navy Precision Optical Interferometer Observations of the Exoplanet Host  $\kappa$  Coronae Borealis and Their Implications for the Star's and Planet's Masses and Ages", Baines, E. K., Armstrong, J. T., **van Belle, G. T.**, 2013 ([2013ApJ...771L..17B](#))
17. "Interferometric observations of rapidly rotating stars", **van Belle, G. T.**, 2012 ([2012A&ARv..20...51V](#))
18. "Supergiant temperatures and linear radii from near-infrared interferometry", **van Belle, G. T.**, Creech-Eakman, M. J., Hart, A., 2009 ([2009MNRAS.394.1925V](#))
19. "Closure Phase Signatures of Planet Transit Events", **van Belle, G. T.**, 2008 ([2008PASP..120..617V](#))
20. "The Palomar Testbed Interferometer Calibrator Catalog", **van Belle, G. T.**, **van Belle, G.**, et al., 2008 ([2008ApJS..176..276V](#))
21. "The Angular Diameter of  $\lambda$  Boötis", Ciardi, D. R., **van Belle, G. T.**, et al., 2007 ([2007ApJ...659.1623C](#))
22. "Measurement of the Surface Gravity of  $\eta$  Bootis", **van Belle, G. T.**, Ciardi, D. R., Boden, A. F., 2007 ([2007ApJ...657.1058V](#))
23. "First Results from the CHARA Array. III. Oblateness, Rotational Velocity, and Gravity Darkening of Alderamin", **van Belle, G. T.**, Ciardi, D. R., et al., 2006 ([2006ApJ...637..494V](#))
24. "Establishing Visible Interferometer System Responses: Resolved and Unresolved Calibrators", **van Belle, G. T.**, **van Belle, G.**, 2005 ([2005PASP..117.1263V](#))
25. "Angular Size Measurements of Mira Variable Stars at 2.2 Microns. II.", **van Belle, G. T.**, Thompson, R. R., Creech-Eakman, M. J., 2002 ([2002AJ....124.1706V](#))
26. "Altair's Oblateness and Rotation Velocity from Long-Baseline Interferometry", **van Belle, G. T.**, Ciardi, D. R., et al., 2001 ([2001ApJ...559.1155V](#))
27. "Radii and Effective Temperatures for G, K, and M Giants and Supergiants", **van Belle, G. T.**, Lane, B. F., et al., 1999 ([1999AJ....117..521V](#))



28. "An Interferometric Search for Bright Companions to 51 Pegasi", Boden, A. F., **van Belle, G. T.**, et al., 1998 ([1998ApJ...504L..39B](#))
29. "Radii and Effective Temperatures for K and M Giants and Supergiants. II.", Dyck, H. M., **van Belle, G. T.**, Thompson, R. R., 1998 ([1998AJ....116..981D](#))
30. "Angular Size Measurements of Carbon Miras and S-Type Stars", **van Belle, G. T.**, Dyck, H. M., et al., 1997 ([1997AJ....114.2150V](#))
31. "Angular Size Measurements of 18 Mira Variable Stars at 2.2 microns", **van Belle, G. T.**, Dyck, H. M., Benson, J. A., Lacasse, M. G., 1996 ([1996AJ....112.2147V](#))
32. "Angular Diameters and Effective Temperatures of Carbon Stars", Dyck, H. M., **van Belle, G. T.**, Benson, J. A., 1996 ([1996AJ....112..294D](#))
33. "Radii and Effective Temperatures for K and M Giants and Supergiants", Dyck, H. M., Benson, J. A., **van Belle, G. T.**, Ridgway, S. T., 1996 ([1996AJ....111.1705D](#))
34. "Angular size measurements of highly evolved stars", **van Belle, G. T.**, 1996 ([1996PhDT.....41V](#))

### **Selected Other Manuscripts:**

1. "The Big Fringe Telescope", **van Belle, G. T.**, Jorgensen, A. M., 2024 ([2024SPIE13095E..1RV](#))
2. "Artemis-enabled Stellar Imager (AeSI): a Lunar long-baseline UV/optical imaging interferometer", Rau, G., Carpenter, K. G., et al., 2024 ([2024SPIE13095E..1JR](#))
3. "MoonLITE: a CLPS-delivered NASA Astrophysics Pioneers lunar optical interferometer for sensitive, milliarcsecond observing", **van Belle, G. T.**, Ciardi, D., et al., 2024 ([2024SPIE13092E..2NV](#))
4. "Planet-Hosting M Dwarfs Have Fewer Close-In Stellar Companions", Clark, C., **van Belle, G.**, et al., 2024 ([2024ESS.....561401C](#))
5. "The Navy Precision Optical Interferometer: large-aperture observations and infrastructure improvements", **van Belle, G. T.**, Clark, J., et al., 2022 ([2022SPIE12183E..04V](#))
6. "LightBeam: Flyby-Like Imaging Without The Flyby", **van Belle, G.**, Kugler, J., Moskovitz, N., Piness, J., 2021 ([2021BAAS...53d.338V](#))
7. "Optimast structurally connected interferometry enabled by in-space robotic manufacturing and assembly", **van Belle, G. T.**, Hillsberry, D., et al., 2020 ([2020SPIE11446E..2KV](#))
8. "The optomechanical design of the Quad-camera Wavefront-sensing Six-channel Speckle Interferometer (QWSSI)", Clark, C. A., **van Belle, G. T.**, et al., 2020 ([2020SPIE11446E..2AC](#))
9. "The Navy Precision Optical Interferometer: two years of development towards large-aperture observations", **van Belle, G.**, Clark, J., et al., 2020 ([2020SPIE11446E..08V](#))
10. "Exoplanet Host Star Characterization with QWSSI", **van Belle, G.**, Clark, C., Horch, E., Trilling, D., 2019 ([2019ESS.....433017V](#))
11. "Understanding the Multiplicity of TESS Exoplanet Host Candidates", Clark, C., **van Belle, G.**, Horch, E., von Braun, K., 2019 ([2019ESS.....431603C](#))
12. "High Angular Resolution Astrophysics: Fundamental Stellar Parameters", **van Belle, G.**, Baines, E., et al., 2019 ([2019BAAS...51c.381V](#))
13. "Stars at High Spatial Resolution", Carpenter, K., **van Belle, G.**, et al., 2019 ([2019BAAS...51c..56C](#))
14. "Many interesting things are afoot at the Navy Precision Optical Interferometer", **van Belle, G. T.**, Armstrong, J. T., et al., 2018 ([2018SPIE10701E..05V](#))
15. "Interferometer evolution: imaging terras after building 'little' experiments (INEVITABLE)", Rinehart, S., Carpenter, K., **van Belle, G.**, Unwin, S., 2014 ([2014SPIE.9146E..17R](#))

16. "Interferometric Observations of Supergiants: Direct Measures of the Very Largest Stars", **van Belle, G. T.**, 2009 ([2009ASPC..412..103V](#))
17. "Extragalactic reference targets for PRIMA", **van Belle, G. T.**, Abuter, R., et al., 2008 ([2008SPIE.7013E..3WV](#))
18. "14th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun", **van Belle, G.**, 2008 ([2008ASPC..384.....V](#))
19. "The scaling relationship between telescope cost and aperture size for very large telescopes", **van Belle, G. T.**, Meinel, A. B., Meinel, M. P., 2004 ([2004SPIE.5489..563V](#))
20. "Keck interferometer autoaligner", **van Belle, G. T.**, Colavita, M. M., et al., 2003 ([2003SPIE.4838.1246V](#))
21. "Predicting Stellar Angular Sizes", **van Belle, G. T.**, 1999 ([1999ASPC..194...64V](#))
22. "Astrometry with the Keck Interferometer", **van Belle, G. T.**, Boden, A. F., et al., 1998 ([1998SPIE.3350..362V](#))
23. "Aperture synthesis imaging with the Keck Interferometer", Vasisht, G., Boden, A. F., et al., 1998 ([1998SPIE.3350..354V](#))

**Additional Skills:**

Linux command line scripting (bash, zsh)  
Programming: Python, C, IDL, Visual Basic, Perl, Octave  
Typesetting: LaTeX  
Microsoft Office Suite: Excel (expert), PowerPoint (expert), Word, Visio

**Additional Information:**

Citizenship: USA, Canada  
Center for Creative Leadership, Leadership Development Program, March 2025  
Private Pilot – Airplane Single Engine Land, 1998 (valid but not current)  
PADI-certified scuba diver  
Erdős-Bacon number is 8  
Languages: English (fluent), German (basic)