

Biographical Information: Sylvain Veilleux (Two-Page Synopsis – 02/11/23)

(a) Professional Preparation:

U. de Montréal	Physics	B.S., 1984
U. of California, Santa Cruz	Astrophysics	Ph.D., 1989 (Advisor: D. E. Osterbrock)
U. of Hawaii, IfA, Manoa	Astrophysics	NSERC (Canada) Fellow, 1989-1992
NOIRLab - Tucson	Astrophysics	Hubble Fellow, 1992-1995

(b) Appointments:

Professor	U. Maryland	2005-
Optical Director	U. Maryland	2003-
Clare Hall Life Member	U. Cambridge, UK	2019-
Kavli Lecturer	U. Cambridge, UK	2019 (spr/sum)
Sackler Distinguished Visitor	U. Cambridge, UK	2019 (spr/sum)
Guggenheim Fellow	U. Maryland	2015 (spr)
Senior Fellow	NASA/GSFC	2012
Senior Humboldt Visiting Professor (renewed)	MPE, Germany	2009 (2012)
Visiting Faculty	Caltech	2003
Visiting Research Fellow	Carnegie Observatories	2003
Associate Professor	U. Maryland	2000-2005
Assistant Professor	U. Maryland	1995-2000

(c) Prizes and Awards:

NSERC (Canada) Fellowship (1989), Hubble Fellowship (1992), NASA/LTSA (1997), Cottrell Scholarship (1998), NSF/CAREER (1999), Humboldt Prize (MPE, Germany, 2008), Distinguished NOVA Series Lecturer (Netherlands, 2012), W. M. Keck Foundation award (2013), Guggenheim Fellowship (2014), Aspen Institute Italia award (2017), Sackler Distinguished Visitor (U. Cambridge, 2019), Kavli Lecturer (U. Cambridge, 2019), Clare Hall Visiting Fellowship (U. Cambridge, 2019), Clare Hall Life Membership (U. Cambridge, 2019)

(d) Products:

- NASA/ADS: 304 (48 1st-author) refereed papers, 28,840+ (7580+) citations, h-index: 87 (32)
- Google Scholar Profile: 36,780+ citations, h-index: 97
- 83 invited conference talks, 92 invited colloquia

(e) Research Funding: (Veilleux portion only, excl. \$8M UMD funds for NOIRLab/Lowell collabs)

- \$12.5M (grand total), \$1.5M (last yr)

(f) Expertise

- *Scientific expertise:* (1) impact of starburst and quasar feedback on galaxy formation and evolution, (2) the supermassive black hole - starburst - galaxy connection at low and high redshifts, (3) transients: gamma-ray bursts, tidal disruption and gravitational wave events.
- *Technical expertise:* (1) 35-year experience with X-ray, UV, optical, infrared, and mm-wave imaging and spectroscopy using large ground-based telescopes (Lick, CFHT, UKIRT, Mayall, Blanco, LDT, Palomar, MMT, Magellan, Gemini, VLT, Keck, ALMA) and space facilities (PI of 30+ *HST*, *GALEX*, *ISO*, *Spitzer*, *Herschel*, *JWST*, *Chandra*, *XMM-Newton*, and *Suzaku* programs). (2) PI for the Maryland-Magellan Tunable Filter (MMTF; Magellan-Baade 6.5m telescope; NSF-ATI/EXC funded). (3) Maryland PI for the NOAO Extremely Wide-Field Infrared Mosaic (NEWFIRM; Mayall and Blanco 4m telescopes; hardware/software collaboration; NOAO + UMD funded). (4) Maryland PI for the Rapid infrared IMager-Spectrometer (RIMAS; 4.3m LDT; GSFC + UMD funded). (5) PI for the Maryland OH Suppression IFU System (MOHSIS, 4.3m LDT; NSF-ATI funded). (6) PI for the Keck Photonic Spectrometer and astrophotonics effort (funded by W. M. Keck Foundation, NSF-ATI, NASA-APRA [\$5M approx., incl. matching funds]).

(g) Advisees:

- *Undergraduate Advisees (since 2018)*: Jason Hinkle (2018-19; ASTR, PHYS High Honors; U. Hawaii PhD), Jillian Kunze (2019-20; ASTR, PHYS High Honors; Ass. Editor, SCIAM); Meghna Sitaram (2019-20; ASTR, PHYS High Honors; Columbia U PhD); Rohan Kane (ASTR, 2020-); Ethan Zack (ASTR, 2020-21); Steven Shockley (ASTR, 2022-); Orion Guiffreda (ASTR, 2023-)
- *PhD Thesis Advisees (since 2015)*: Weizhe Liu (PhD 2022; JASPER Fellow, UofA), Robyn Smith (PhD 2022), Jiahao Zhan (co-advisor; PhD 2022; industry), Tomas Ahumada (co-advisor; PhD 2022; Caltech), Shengjie Xie (co-advisor; PhD 2021; Analog Photonics), Myra Stone (PhD 2020, Deloitte); Yiwen Hu (co-advisor; PhD 2020; Google); Pradip Gatkine (PhD 2020; Hubble Fellow, Caltech); Yang Meng (co-advisor; PhD 2017; industry); Vicki Toy (PhD 2017; JHU/APL); Tiecheng Zhu (PhD 2016; Bloomberg); John Capone (PhD 2016; GSFC civil servant); Alex McCormick (PhD 2015, Lecturer, South Florida); Grand total: 29 (incl. 5 currently)
- *Postgraduate-Scholar Sponsors*: Yang Zhang (2021- ...; postdoc); Francesco Tombesi (2014 – 17, U. Roma “Tor Vergata”, Associate Prof.); Marcio Melendez (2011 – 15, STScI, Staff); Stacy Teng (2010 – 11, JHU/APL, Staff); Margaret Trippe (2009 – 12, JHU/APL, Staff); David Rupke (2004 – 08, Rhodes College, Associate Prof.); Dong-Chan Kim (2004 – 08, NRAO, Staff); Ben Weiner (2004 – 06, U. Arizona, Associate Res. Professor). Grand total: 8

(h) Synergistic Activities:

- *STEM Projects*: Introduced UMD undergraduate students, area high school students, members of the public, and promising students from mid-atlantic minority serving institutions to the tools and hands-on methods of modern ground-based astronomy through a variety of projects supported by awards from the NSF, NASA, Research Corporation for Science Advancement, Alexander von Humboldt Foundation, W. M. Keck Foundation, and J. S. Guggenheim Memorial Foundation.
- *UMD Course Innovations*: Developed two new advanced undergraduate courses on Galaxies and Cosmology (2001-02). Revamped the undergraduate Instrumentation course (2005) and graduate Galaxies course (2020). These courses draw ties between teaching and own research projects. Taught a 100% on-line lab course to 200 non-science majors in 2021
- *Summer Schools*: Created, led, and organized the 2004, 2005, and 2007 Kitt Peak summer schools for 20+ UMD graduate and undergraduate students to help them gain hands-on technical experience with the facilities at KPNO.
- *UMD Leadership*: Optical Director ('03-...), Chair of 20+ department/university-wide committees, incl. '06-07 and '17-18 college-wide appointment/promotion/tenure committees.
- *Astronomy Community Leadership*: Scientific planning of a 18+ international conferences. Member-at-large of 33 appointment/promotion/tenure/prize committees. Panel member (Chair) on 30+ (4) committees advising the NSF, NASA, and international research institutes on programs, facilities, and postdoctoral fellowships. Gemini Board of Directors (2013-17; Vice-Chair: 2014-17; Subcommittees: Gen4#3 – Chair, Strategic Vision – Member).