Adiv Paradise

50 St George St Room 203
Toronto, ON M5S 3H4
paradise@astro.utoronto.ca

EDUCATION

University of Minnesota - Twin Cities *May 2014*
B.S. in Astrophysics and Physics, *magna cum laude*

University of Toronto *Started September 2015*
Ph.D. Candidate in Astrophysics

RESEARCH GROUPS

Exoplanetary Climates & Habitability 2015–Present
Dr. Kristen Menou, University of Toronto

CHIME Radio Telescope Data Processing *2015*
Dr. Keith Vanderlinde, University of Toronto

Computational Fluid Dynamics & Numerical Methods *2013–2015*
Drs. Paul Woodward & William Dai, University of Minnesota & Los Alamos National Laboratory

Solar Wind & Magnetospheric Physics *2011–2014*
Drs. Cynthia Cattell & Aaron Breneman, University of Minnesota

JOURNAL PUBLICATIONS

1. ***Adiv Paradise***, *Kristen Menou, Diana Valencia, and Christopher Lee. Habitable Snowballs: Generalizing the Habitable Zone. March 2018. (Submitted; arXiv:1803.00511)*
2. ***Adiv Paradise*** *and Kristen Menou. GCM Simulations of Unstable Climates in the Habitable Zone.* The Astrophysical Journal, *848(1):33, 2017*
3. *Kiyoshi W. Masui, J. Richard Shaw, Cherry Ng, Kendrick M. Smith, Keith Vanderlinde, and* ***Adiv Paradise****. Algorithms for FFT Beamforming Radio Interferometers. oct 2017. Under review*
4. *Cherry Ng, Keith Vanderlinde,* ***Adiv Paradise****, Peter Klages, Kiyoshi Masui, Kendrick Smith, Kevin Bandura, Patrick Joseph Boyle, Matt Dobbs, Victoria Kaspi, Andre Renard, J Richard Shaw, Ingrid Stairs, and Ian Tretyakov. CHIME FRB: An application of FFT beamforming for a radio telescope.* XXXIIth URSI General Assembly & Scientific Symposium (URSI GASS) 2017, *August 2017*
5. *Daniel Tamayo, Ari Silburt, Diana Valencia, Kristen Menou, Mohamad Ali-Dib, Cristobal Petrovich, Chelsea X. Huang, Hanno Rein, Christa van Laerhoven,* ***Adiv Paradise****, Alysa Obertas, and Norman Murray. A Machine Learns to Predict the Stability of Tightly Packed Planetary Systems.* The Astrophysical Journal, *832(2):L22, nov 2016*
6. *A. W. Breneman, C. A. Cattell, K. Kersten,* ***Paradise, A.****, S. Schreiner, P. J. Kellogg, K. Goetz, and L. B. Wilson. STEREO and Wind observations of intense cyclotron harmonic waves at the Earth's bow shock and inside the magnetosheath.* Journal of Geophysical Research: Space Physics, *118(12):7654–7664, 2013*

7. *A. Breneman, C. Cattell, J. Wygant, K. Kersten, L. B. Wilson, L. Dai, C. Colpitts, P. J. Kellogg, K. Goetz, and* ***Paradise, A.*** *Explaining polarization reversals in STEREO wave data.* Journal of Geophysical Research: Space Physics, *117(4):1–8, 2012*

SELECTED CONFERENCE PROCEEDINGS

1. *A. Paradise and K. Menou. 'The Habitability of Frozen Worlds'. Emerging Researchers in Exoplanet Sciences III (Talk), June 2017*
2. *A. Paradise and P. Woodward. 'Toward a new implicit scheme using Riemann invariants'. JINA-CEE GNASH: The anomalous metal-poor stars and convective-reactive nuclear astrophysics (Talk), May 2015*
3. *A. Paradise and K. Menou. 'Stable weathering equilibria in snowball planets in the habitable zone'. Emerging Researchers in Exoplanet Sciences II (Poster), June 2016*
4. *A. Paradise, P. Woodward, and W. Dai. 'Development and Optimization of a Fast Poisson Solver using a Red-Black Multigrid Approach in 2-D'. LANL Computing and Information Technology Student Mini Showcase (Poster), July 2014*
5. *A. Paradise, A. W. Breneman, C. A. Cattell, K. Kersten, S. Schreiner, P. J. Kellogg, K. Goetz, and L. B. Wilson, III. 'STEREO and Wind Observations of Intense Cyclotron Harmonic Waves at the Earth's Bow Shock'. American Geophysical Union Fall Meeting (Poster), December 2013*

SELECTED OUTREACH

ASX: Astronomy & Space Exploration Society
"Is Anybody Out There?" Panel Discussion – Panelist — *March 7, 2018*

AstroTours Astronomy Outreach Events
"Cold Out There, Eh? The Climates of Alien Worlds" (Lecture) — *March 1, 2018*

Dunlap Institute for Astronomy & Astrophysics
"The Squid-People of Proxima b" ('Astro on Tap' Talk) — *March 23, 2018*
"Ask an Astronomer" Email Service — *2016–Present*

University of Toronto Libraries "Science Literacy Week"
Human Book: 'What is an Astronomer?' — *September 2017*

AAAS "Book Smart" Book Club: 'The Hunt for Vulcan' by Thomas Levinson
Expert Facilitator for Book Discussion — *2016*

SELECTED AWARDS

Lachlan Gilchrist Fellowship — *2017*
4500 CAD

Centre for Planetary Sciences Graduate Fellowship — *2015*
5000 CAD/year; 2 years

Outstanding Technical Presentation Award — *2014*
Los Alamos National Laboratory

Hagstrum Award for Physics Research — *2014*
1000 USD