Alexander Gerard Hayes						
Current Ad 412 Space S Ithaca, NY 1	dresshttp://www.cience Bldg.alexand	http://www.alexanderghayes.com <u>alexander.hayes@gmail.com</u> (607) 793-7531		85 Olde To	<b>Permanent Address</b> 85 Olde Towne Rd. Ithaca, NY 14850	
EDUCATION						
Ph.D. M.S. M.Eng. B.A. B.A.	Planetary Science (Minor in Geology) Planetary Science Applied & Engineering Physics Astronomy / Physics, <i>Summa Cum Laude</i> Astrobiology (College Scholar), <i>Summa</i>		California Institute of Tech California Institute of Tech Cornell University Cornell University Cornell University		April 2011 June 2008 Dec. 2003 May 2003 May 2003	
SELECT AWARDS / FELLOWSHIPS						
Feinberg Faculty Fellow, Weizmann Institute (2019) Provost Research Innovation Award, Cornell Univ. (2018) Young Scientist Award, World Economic Forum (2017) Zeldovich Medal, COSPAR / RAS (2016) Kavli Fellow, National Academy of Sciences (2014) NASA Early Career Fellow (2013) AGU Ronald Greeley Early Career Award (2012) Miller Research Fellow (2011-2012)			Sigma Xi Young Scholar Procter Prize (2008) AGU Outstanding Student Paper Award (2008, 2010) NASA Graduate Research Fellow (2008-2011) Caltech Henshaw Fellow (2006-2008) David Delano Clark Award [for Masters' Thesis] (2004) Distinction in all Subjects – Cornell University (2003) Cornell University College Scholar (2000-2003) NASA Group Achievement Awards (MER/MSL/Cassini)			
TEACHING EXPERIENCE						
<ul> <li>A3150, Geomorphology [S19]</li> <li>A3310, Planetary Image Processing [F15]</li> <li>A6577, Planetary Surface Processes [S15,S17,S20]</li> <li>A2202, A Spacecraft Tour of the Solar Sys. [S14,F14-F20]</li> </ul> SELECT COMMITTEE MEMBERSHIPS / ADVISORY BOAF		<ul> <li>A4410, Experimental Astronomy [F13]</li> <li>A1102/A1104, Our Solar System [S17,S18]</li> <li>A6500: Mars2020 Landing Sites [S16]</li> <li>A6500: Mars2020 Instruments [F20]</li> </ul>				
<ul> <li>2020 – Present: Panel Chair, Ocean Worlds &amp; Dwarf Planets, 2023-2032 Planetary Science &amp; Astrobiology Decadal Survey</li> <li>2018 – Present: U.S. Science Representative, COSPAR Panel on Planetary Protection</li> <li>2017 – Present: National Academy of Sciences Space Studies Board: <i>Committee on Astrobiology and Planetary Science</i></li> <li>2016 – Present: Vice-Chair of COSPAR Sub-Commission B5: <i>Outer Planets and their Satellites</i></li> <li>2013 – Present: Advisory Boards, Cornell University College Scholar Program and Carl Sagan Institute</li> <li>2013 – 2018: Icarus Editorial Advisory Board, Elsevier / AAS Division of Planetary Science.</li> <li>2005-2008: SPIE Defense and Security Symp.; Technologies for Synthetic Environments: Hardware-in-the-Loop-Testing</li> </ul>						
NASA FLIGHT MISSION EXPERIENCE						
<ul> <li>Dragonfly; Co-I</li> <li>Europa Clipper; Co-I (EIS); Co-Chair of Geology WG</li> <li>Mars 2020; Co-I, Calibration Lead (MastcamZ)</li> <li>MSL; Participating Scientist Collaborator</li> <li>Cassini; Participating Scientist; Assoc TM (RADAR/VIMS)</li> <li>MER; Collaborator; Payload Uplink/Downlink Lead</li> </ul>					,	
PROFESSIONAL APPOINTMENTS						
<ul> <li>Cornell University, Astronomy Department; Ithaca, NY         <ul> <li>Director, Cornell Center for Astrophysics and Planetary Science; July 2019 - Present</li> <li>Associate Professor of Astronomy; July 2018-Present (Assistant Professor; January 2013 – June 2018)</li> <li>Director, Spacecraft Planetary Imaging Facility (NASA Regional Planetary Imaging Facility); August 2012–Present</li> <li>Specialization: Planetary Science; Comparative Planetology and Solar System Exploration, Instrument Development</li> </ul> </li> <li>Miller Institute for Basic Research in Science, University of California at Berkeley; Berkeley, CA         <ul> <li>Miller Research Fellow; July 2011-December 2012</li> <li>Department Affiliations: Astronomy / Earth and Planetary Science</li> </ul> </li> <li>California Institute of Technology, Division of Geological and Planetary Sciences; Pasadena, CA         <ul> <li>Post-Doctoral Scholar; April 2011-July 2011 / Graduate Student; September 2006-March 2011</li> <li>Set the the off the file of the</li></ul></li></ul>						

- Specialization: Remote Sensing and Modeling of Planetary Surfaces (Vis., IR, & Radar) and Spacecraft Instrumentation Massachusetts Institute of Technology, Lincoln Laboratory; Lexington, MA
- Consultant; September 2006- September 2007 /Associate Staff; May 2004-September 2006 (DOD Secret Clearance)
- Specialization: Lab. Exp. & Mgmt; IR Remote Sensing, Instrument Design, Characterization, & Algorithm Development

Arizona State University, School of Earth and Space Exploration; Tempe, AZ
 Remote Software Consultant; May 2004-September 2006

- Specialization: Planning and Analysis Tools for Tactical Operation of Spacecraft Infrared Spectrometer (Mini-TES)
- Jet Propulsion Laboratory; Pasadena, CA
  - Mars Exploration Rover Science Team Affiliate; January 2004 May 2004 (employed by Cornell for primary mission)
     Specialization: Science Payload Operation (Uplink and Downlink of Science and Engineering Cameras)
- Cornell University, Astronomy Department; Ithaca, NY
- Student Researcher; August 1999-December 2003
  - Specialization: Instrument Co-Registration, Data-Fusion, and Camera Calibration (Visible and Infrared)

## PUBLICATIONS (FULL LIST AVAILABLE AT http://www.alexanderghayes.com)

- h-INDEX: 52 m-INDEX: 3 i10-INDEX 122 CITATIONS:11000 (GOOGLE SCHOLAR) http://www.researcherid.com/rid/P-2024-2014
- More than 125 Co-Authored Journal Publication, 3 Book Chapters, and 5 White Papers / Popular Science Articles.