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RESEARCH INTERESTS	Medical and astronomical imaging instrumentation, extrasolar planets, stellar activity, global health.	
EDUCATION	Ph.D. in Astronomy	Cornell University January 2005
	M.S. in Astronomy	Cornell University December 2003
	B.A. in Physics	Pomona College May 1999
HONORS AND AWARDS	SCRA Applied Researcher of the Year	2024
	InnoVision Award for Technology Development	2023
	Henri Chretien International Research Grant Award	2019
	Fulbright Scholarship	2016
	InnoVision Award for Technology Application	2014
	Distinguished Research Award, College of Charleston	2014
	Gordon E. Jones Distinguished Achievement Award, College of Charleston	2014
	Research Corporation Cottrell College Science Award	2012
	Co-discovery of GJ 758 B - TIME Magazine Top 10 Science Discoveries of 2009	2009
	MPIA Fellowship	2008-2010
	NASA NPP Fellowship	2007-2008
	NASA Space Grant Graduate Fellowship	2002-2003
	Frank P. Brackett Prize in Astronomy, Pomona College	1999
PROFESSIONAL POSITIONS	College of Charleston	
	<i>Professor</i>	2022 - present
	<i>Associate Professor</i>	2015 - 2022
	<i>Assistant Professor</i>	2010 - 2015
	Pensievision Inc	
	<i>Co-Founder and Chief Technology Officer</i>	2015 - present
	Universidad Nacional de Colombia	
	<i>Fulbright Scholar</i>	2017

	<i>Visiting Professor Ad Honorem</i>	2017
	Max-Planck-Institut für Astronomie <i>MPIA Fellow</i>	2007 - 2010
	Jet Propulsion Laboratory <i>NASA NPP Fellow</i> <i>Caltech Postdoctoral Scholar</i>	2006 - 2007 2004 - 2006
PROFESSIONAL SERVICE	President <i>Charleston Chapter of Sigma Xi – The Scientific Research Society</i> (accolade: 2018 Chapter of Excellence Award)	2017 - 2020
	Councilor <i>Oak Ridge Associated Universities</i> <i>Council on Undergraduate Research</i>	2013 - 2020 2016 - 2018
	Referee <i>Astronomical Journal</i> <i>American Journal of Physics</i> <i>Monthly Notices of the Royal Astronomical Society</i> <i>Advances in Space Research</i> <i>Astrophysical Journal</i> <i>Astronomy & Astrophysics</i> <i>Optics Express</i>	2020, 2022 2011, 2013, 2015, 2018, 2019, 2020, 2021 2015 2014 2013 2010 2006
	Grant Reviewer <i>National Science Foundation</i> <i>Research Corporation for Science Advancement</i> <i>Fulbright Program</i> <i>NASA</i> <i>Oak Ridge Associated Universities</i> <i>COST (Swiss Research Organization)</i> <i>FONDECYT (Chile National Science Foundation)</i> <i>FCT (Portuguese Foundation for Science & Technology)</i> <i>NWO (Dutch Scientific Research Organization)</i>	2006, 2014, 2023 2013, 2014, 2015, 2016, 2018, 2019, 2020 2019, 2020 2011, 2013, 2015, 2017 2012, 2013 2013 2011, 2012 2012 2010
	Advisory Board Member <i>Biomedical Sciences Advisory Board, South Carolina Research Authority</i> <i>Biomedical Engineering and Mechanics Industry Partners, Virginia Tech</i>	2020 - present 2020 - present
GRANTS AWARDED AS LEAD INVESTIGATOR	National Institutes of Health / National Cancer Institute , “A Novel Low Cost Handheld 3D Imaging System for Improved Screening of Cervical Neoplasia in Resource Limited Settings”, (2023-2025), \$2,160,469.	
	NASA SC Space Grant , “Two Scientific Payloads for South Carolina’s First CubeSat Mission”, (2024), \$20,000.	
	National Science Foundation , “An Endoscopic 3D Imaging System for the Evaluation of Cancer and Other Disorders of the Esophagus and Pharynx”, (2023-2024), \$255,717.	
	SC INBRE / National Institutes of Health , “Development of a 3D Widefield Imaging and Navigation System With Microscopic Assessment of Large-Size Cartilage Samples”, (2022-2023),	

\$225,000.

South Carolina Research Authority, “A Novel Low Cost Handheld 3D Imaging System for Improved Screening of Cervical Neoplasia in Resource Limited Settings”, (2023-2024), \$25,000.

National Institutes of Health / National Cancer Institute, “A Novel Low Cost Handheld 3D Imaging System for Improved Screening of Cervical Neoplasia in Resource Limited Settings”, (2021-2022), \$400,000.

South Carolina Research Authority, “A Novel Low Cost Handheld 3D Imaging System for Improved Screening of Cervical Neoplasia in Resource Limited Settings”, (2021-2022), \$50,000.

SC INBRE / National Institutes of Health, “Advancing Low Cost, All-Focus, 3D Imaging Technologies, Using Shape-From-Focus Techniques”, (2020-2022), \$150,000.

NASA SC Space Grant, “An Observational & Computational Investigation into the Impact of Stellar Activity on Planet Evolution”, (2020), \$20,000.

South Carolina Research Authority, “Developing a Single-Visit System to Screen, Diagnose, and Treat Cervical Neoplasia”, (2020-2021), \$25,000.

CofC Faculty Research and Development Grant, “Telescope Monitoring of Young Stars, to Investigate the Impact of Stellar Activity on Planet Evolution & Habitability”, (2020), \$5,000.

American Astronomical Society, “Spectroscopic Monitoring of Young Stars, to Investigate the Impact of Stellar Activity on Planet Evolution”, (2019), \$16,200.

South Carolina Research Authority, “Developing a Single-Visit System to Screen, Diagnose, and Treat Cervical Neoplasia”, (2019), \$50,000.

National Science Foundation, “Developing a Single-Visit System to Screen, Diagnose, and Treat Cervical Neoplasia”, (2018-2019), \$224,289.

NASA SC Space Grant, “Palmetto Research Academy: Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution”, (2018), \$18,000.

Fulbright Scholarship, “Engaging Students in Colombia in Extrasolar Planet Studies”, (2016-2017), \$26,000.

NASA SC Space Grant, “Using HST Archival Data to Evaluate New Exoplanet Candidates Discovered by VLT/SPHERE”, (2016-2017), \$20,000.

NASA SC Space Grant, “Palmetto Research Academy: Numerical Simulations and Observational Signatures of the Escaping Upper Atmosphere of Hot Jupiter Extrasolar Planets” (Co-PI), (2016), \$18,000.

NASA SC Space Grant, “Debris Disk and Extrasolar Planet Imaging with the Hubble and Spitzer Telescopes”, (2015-2016), \$19,500.

CofC Faculty Research and Development Grant, “Exploring Stellar Disks with the Hubble Space Telescope”, (2015), \$4,000.

Spitzer Space Telescope General Observing Time, “Imaging Search for Dynamically Inferred Planets in Nearby Debris Disk Systems” (Administrative PI), (2012-2015), \$5,000.

Hubble Space Telescope EPO Grant, “Transporting HST Exoplanet Studies to the Middle/High-School Classroom”, (2011-2015), \$20,000.

National Science Foundation, “RUI: Ground-Based and Space-Based Direct Imaging Surveys for Extrasolar Planets”, (2010-2015), \$286,568.

Research Corporation Cottrell College Science Award, “Extrasolar Planet Imaging Studies with the Hubble and Spitzer Telescopes”, (2012-2014), \$35,000.

NASA SC Space Grant, “Search for Extrasolar Planets of Young Nearby Stars”, (2012-2013), \$30,000.

NASA Keck General Observing Time, “Coldest Imaged Companion of a Sun-like Star”, (2010-2012), \$12,700.

MPIA Postdoctoral Fellowship, “Science Observations with SPHERE: Direct Imaging of Exoplanets”, (2007-2010), €87,000 [\$98,000 USD]

NASA NPP Fellowship, “Observational Studies of Substellar Companions Around Nearby Stars and Instrumentation Research to Improve High Contrast Companion Searches”, (2006-2007), \$100,000

JPL Innovative Spontaneous Concepts Grant, “A Band Limited Mask for High-Contrast Adaptive Optics Imaging”, (2006), \$30,000.

NASA NY Space Grant Graduate Fellowship, (2002-2003), \$40,000.

GRANTS AWARDED
AS
CO-INVESTIGATOR*

National Science Foundation, “ADAPT in SC: AI-enabled Devices for the Advancement of Personalized and Transformative Healthcare in South Carolina”, (2023-2028), \$20,000,000.

Jet Propulsion Laboratory, “Advanced Computational Tools for the Starshade Exoplanet Data Challenge”, (2021-2022), \$50,000.

Hubble Space Telescope General Observing Time, “Decoding Debris System Substructures: Imprints of Planets/Planetesimals and Signatures of Extrinsic Influences on Material in Ring-Like Disks”, (2014-2016), \$315,188.

Spitzer Space Telescope General Observing Time, “Confirmation of T Dwarf Candidate Companions of Radial Velocity Planet Systems”, (2012-2014), \$5,000.

Spitzer Space Telescope General Observing Time, “Search for Planetary Mass Companions of Nearby Young Stars”, (2011-2014), \$44,000.

National Institutes of Health, “Developing a 3D Imaging System for Monitoring Kaposi’s Sarcoma”, (2012-2014), \$129,000.

Hubble Space Telescope General Observing Time, “Probing for Exoplanets Hiding in Dusty Debris Disks: Inner Disk Imaging, Characterization, and Exploration”, (2010-2013), \$520,000.

Spitzer Space Telescope General Observing Time, “IRAC Search for Planetary Mass Companions of Extrasolar Planetary Systems: Probing the inner 400 AU”, (2007), \$50,000.

National Science Foundation, “Development of a Visible-Light Adaptive Optics Upgrade at Palomar Mountain”, (2006-2008), \$1,100,000.

Spitzer Space Telescope General Observing Time, “Search for Planetary Companions of Epsilon Eridani and Fomalhaut”, (2006), \$50,000.

. * funding values reflect overall grant award, covering all team members.

**PROFESSIONAL
MEMBERSHIPS**

Sigma Xi
Phi Kappa Phi
Council on Undergraduate Research
South Carolina Science Council
American Astronomical Society

**RESEARCHERS
SUPERVISED**

Gael Gonzalez (NASA MIST Fellow, SURF Fellow): “A Feasibility Study Using CubeSats to Monitor Stellar Activity at Ultraviolet Wavelengths”, 2024-present
Brian Nguyen: “Computational Techniques for Biomedical 3D Optical Imaging”, 2024-present
Nisa Soltani: “An Investigation of Piezoelectronics and Telecentric Lenses for Advanced 3D Biomedical Imaging”, 2023-present
Allie Barnes: “A Human Factors Investigation of a New Medical Device for Cervical Cancer Screening”, 2023-present
Jeff Lesperance: “Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution”, 2024-present
Bailey Williamson: “An Innovative 3D Imaging System for Screening and Diagnosing Pre-Cancerous Growths”, 2020-present
Stanley McAfee: “An Innovative 3D Imaging System for Screening and Diagnosing Pre-Cancerous Growths”, 2018-present
Kevin Gainey: “An Innovative 3D Imaging System for Screening and Diagnosing Pre-Cancerous Growths”, 2012-2013 and 2018-present
Isabelle Mehochko: “An Innovative 3D Imaging System for Screening and Diagnosing Pre-Cancerous Growths”, 2023-present
Julia Wakefield: “An Innovative 3D Imaging System for Screening and Diagnosing Pre-Cancerous Growths”, 2021, 2024-present
James Dockery (NASA MIST Fellow, SURF Fellow): “Investigating the Impact of Episodic Stellar Activity on Planet Evolution”, 2021-2024
Jake Frederick: “Investigating the Impact of Episodic Stellar Activity on Planet Evolution”, 2022-2024
Chris Lesoine: “Design, Assembly, and In-lab Testing of a CubeSat Payload for Ultraviolet Stellar Observation”, 2023-2024
Jenna Snead (SURF Fellow): “Testing the Functionality of an Autofocus, Variable Zoom Camera System for 3D Medical Imaging Applications”, 2020-2023
Brianna Joyner: “A Novel, Miniaturized, 3D Imaging Scope for Medical Applications”, 2021-2023
Aly Nida (NASA USRF Fellow): “Advanced Computational Tools for the Starshade Exoplanet Data Challenge”, 2018, 2020-2023
Yared Reinartz: “Algorithm Development for Combining Multiple, 3D, Shape-From-Focus Images, for Medical Applications”, 2021-2022
DJ Guarino: “Investigating the Impact of Episodic Stellar Activity on Planet Evolution”, 2021
Logan Oxener: “Investigating the Impact of Episodic Stellar Activity on Planet Evolution”, 2019-2021
Katrina Bynum (SURF Fellow): “A CubeSat Feasibility Study for Monitoring Episodic Stellar Activity”, 2020-2021
Blake Mino (NASA USRF Fellow, NASA Palmetto Fellow): “Exoplanet Imaging with the Hubble Space Telescope”, 2017-2020
Will Ceva (NASA Palmetto Fellow): “Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution”, 2017-2020

Lucy Williamson (SURF Fellow): “Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution”, 2018-2019

Quinn Williams: “A 3D Imaging System for Screening and Diagnosing Cervical Cancer”, 2019

Austin Purtell: “Exoplanet Imaging with the Hubble Space Telescope”, 2019

Dereck Morgado: “Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution”, 2018-2019

David Melnick (NASA USRF Fellow, SURF Fellow, MAYS Fellow): “Exoplanet Imaging with the Spitzer and Hubble Space Telescope”, 2015-2018

Elyana Crowder (SURF Fellow, MAYS Fellow): “Spectroscopic Monitoring of Young Stars with Circumstellar Disks, to Investigate the Impact of Stellar Activity on Planet Formation and Evolution”, 2016-2018

Maxwell Rabe (SURF Fellow): “A Novel 3D Imaging Technique for Cancer Diagnoses”, 2018

Rafael Hurtado: “Exoplanet Studies with the Subaru SEEDS Survey”, 2017-2018

Vianny Estrada: “Spectroscopic Monitoring of Young Stars with Circumstellar Disks, to Investigate the Impact of Stellar Activity on Planet Formation and Evolution”, 2017

Lennart Langouche: “A Fiber-Based Liquid Lens Endoscope”, 2017

Jerson Huerfano: “Exoplanet Imaging with the Hubble Space Telescope”, 2017

Wendell Roberson: “Exoplanet Studies with the Subaru SEEDS Survey”, 2016

Adam Fletcher: “Using HST Archival Data to Evaluate New Exoplanet Candidates Discovered by VLT/SPHERE”, 2016

Ariane McKiernan (HHMI Fellow): “A Novel 3D Imaging Technique for Cancer Diagnoses”, 2015-2016

Hannah Wilson (SURF Fellow, AYRA Recipient): “A Novel 3D Imaging Technique for Cancer Diagnoses”, 2014-2016

Laura Stevens (NASA USRF Fellow): “Exoplanet Studies with the Subaru SEEDS Survey”, 2011-2016

Jameson Sanders: “Imaging Extrasolar Planets and Circumstellar Disks with the Hubble Space Telescope”, 2015

Clay Gardner: “Imaging Extrasolar Planets and Circumstellar Disks with the Hubble Space Telescope”, 2014-2015

Kellen Lawson (MAYS Fellow, SURF Fellow): “Exoplanet Studies with the Subaru SEEDS Survey”, 2013-2014

Zachary Griggs: “Imaging Extrasolar Planets and Circumstellar Disks with the Hubble Space Telescope”, 2013-2014

Benjamin Wilson (MAYS Fellow, Boeing Scholar): “Imaging Extrasolar Planets and Circumstellar Disks with the Hubble Space Telescope”, 2013-2014

David McDaniel: “A Novel 3D Imaging Technique for Cancer Diagnoses”, 2014

Nathan Gunzenhauser: “Subaru SEEDS Exoplanet Survey”, 2014-2015

Brittany Yeager: “Imaging Extrasolar Planets and Circumstellar Disks with the Hubble Space Telescope”, 2013-2014

Kara Perrino: “The Hubble Exoplanet Classroom”, 2013

Thea Kozakis (SURF Fellow, MAYS Fellow): “Exoplanet Studies with the Subaru SEEDS Survey”, 2011-2013

David Ruwadi: “The Hubble Exoplanet Classroom”, 2012

Palmer Wong: “Exoplanet Studies with the Subaru SEEDS Survey”, 2011-2012

Jesica Trucks: “A Monte Carlo Population Study of Exoplanet Companions of High Mass Stars”, 2011-2012

J. Alex Greene: “Brown Dwarfs Around Radial Velocity Planet Systems”, 2012

Andrei Zorilescu: “Lucky Imaging with the College of Charleston Observatory”, 2011-2012

John Bent: “Brown Dwarfs Around Radial Velocity Planet Systems”, 2011

Carolin Schnupp: “Brown Dwarfs Around Radial Velocity Planet Systems”, 2009-2010

Gregorio Villar: “An Adaptive Optics Survey of Sub-Stellar Companions to TPF Candidate Targets”, 2007-2009

Michael Blaschak: “An Adaptive Optics Survey of Sub-stellar Companions to TPF Candidate

Targets”, 2007-2008

Kyle Hiner: “A Distance-Limited Imaging Survey of Sub-Stellar Companions to Solar Neighborhood Stars”, 2006-2007

Lilit Abramyan: “Palomar Hale Telescope Adaptive Optics Instrumentation”, 2006-2007

Jeffrey Smith (JPlus Scholar): “A Monte Carlo Population Study of Wide Separation Brown Dwarf Companions to Main Sequence Stars”, 2005

PATENTS

1. **J. C. Carson**, B. Carson, S. Esener, K. Liu, D. Melnick, & E. Crowder, “[Method, System, Software and Device for Remote, Miniaturized, and Three-Dimensional Imaging and Analysis of Human Lesions; Research and Clinical Applications](#)”, U.S. Patent 20190090753, March 2019.

PEER REVIEWED PUBLICATIONS

1. M. Jones, Y. Reinartz, R. Brahm, M. Tala Pinto, J. Eberhardt, F. Rojas, A. Triaud, A. Gupta, C. Ziegler, M. Hobson, A. Jordán, T. Henning, T. Trifonov, M. Schlecker, N. Espinoza, P. Torres-Miranda, P. Sarkis, S. Ulmer-Moll, M. Lendl, M. Uzundag, M. Moyano, K. Hesse, D. Caldwell, A. Shporer, M. Lund, J. Jenkins, S. Seager, J. Winn, G. Ricker, C. Burke, P. Figueira, A. Psaridi, K. Al Moulla, D. Mounzer, M. Standing, D. Martin, G. Dransfield, T. Baycroft, D. Dragomir, G. Boyle, V. Suc, A. Mann, M. Timmermans, E. Ducrot, M. Hooton, S. Zuñiga-Fernández, D. Sebastian, M. Gillon, D. Queloz, **J. C Carson**, & J. Lissauer, 2024, *A&A*, 683, 192 “[A long-period transiting substellar companion in the super-Jupiters to brown dwarfs mass regime and a prototypical warm-Jupiter detected by TESS](#)”
2. M. Janson, R. Gratton, L. Rodet, A. Vigan, M. Bonnefoy, P. Delorme, E. Mamajek, S. Reffert, L. Stock, G.-D. Marleau, M. Langlois, G. Chauvin, S. Desidera, S. Ringqvist, L. Mayer, G. Viswanath, V. Squicciarini, M. Meyer, M. Samland, S. Petrus, R. Helled, M. Kenworthy, S. Quanz, B. Biller, T. Henning, D. Mesa, N. Engler, **J. C Carson**, 2022, *Nature*, 600, 231 “[A wide-orbit giant planet in the high-mass b Centauri binary system](#)”
3. M. Janson, V. Squicciarini, P. Delorme, R. Gratton, M. Bonnefoy, S. Reffert, E. Mamajek, S. Eriksson, A. Vigan, M. Langlois, N. Engler, G. Chauvin, S. Desidera, L. Mayer, G.-D. Marleau, A. Bohn, M. Samland, M. Bonavita, M. Meyer, V. d’Orazi, T. Henning, S. Quanz, M. Kenworthy, & **J. C. Carson**, 2021, *Astronomy & Astrophysics*, 646, 164 “[BEAST Begins: Sample Characteristics and Survey Performance of the B-Star Exoplanet Abundance Study](#)”
4. S. Desidera, G. Chauvin, M. Bonavita, S. Messina, H. LeCoroller, T. Schmidt, R. Gratton, C. Lazzoni, M. Meyer, J. Schlieder, A. Cheetham, J. Hagelberg, M. Bonnefoy, M. Feldt, A.-M. Lagrange, M. Langlois, A. Vigan, T. Tan, F.-J. Hamsch, M. Millward, J. Alcalá, S. Benatti, W. Brandner, **J. C. Carson**, et al., 2021, *Astronomy & Astrophysics*, 651, 70 “[The SPHERE Infrared Survey for Exoplanets \(SHINE\). I. Sample Definition and Target Characterization](#)”
5. S. Mayama, S. Pérez, N. Kusakabe, T. Muto, T. Tsukagoshi, M. Sitko, M. Takami, J. Hashimoto, R. Dong, J. Kwon, S. Hayashi, T. Kudo, M. Kuzuhara, K. Follette, M. Fukagawa, M. Momose, D. Oh, J. de Leon, E. Akiyama, J. Wisniewski, Y. Yang, L. Abe, W. Brandner, T. Brandt, M. Bonnefoy, **J. C. Carson**, et al., 2020, *Astronomical Journal*, 159, 12 “[Subaru Near-infrared Imaging Polarimetry of Misaligned Disks around the SR 24 Hierarchical Triple System](#)”
6. Y. Yang, E. Akiyama, T. Currie, R. Dong, J. Hashimoto, S. Hayashi, C. Grady, M. Janson, N. Jovanovic, T. Uyama, T. Nakagawa, T. Kudo, N. Kusakabe, M. Kuzuhara, L. Abe, W. Brandner, T. Brandt, M. Bonnefoy, **J. C. Carson**, et al., 2020, *Astrophysical Journal*, 889, 140 “[High-resolution Near-infrared Polarimetry and Submillimeter Imaging of FS Tau A: Possible Streamers in Misaligned Circumbinary Disk System](#)”

7. M. Janson, R. Asensio-Torres, D. André, M. Bonnefoy, P. Delorme, S. Reffert, S. Desidera, M. Langlois, G. Chauvin, R. Gratton, A. Bohn, S. Eriksson, G.-D. Marleau, E. Mamajek, A. Vigan, **J. C. Carson**, et al., 2019, *Astronomy & Astrophysics*, 626, 99 “[The B-Star Exoplanet Abundance Study: a co-moving 16-25 \$M_{Jup}\$ companion to the young binary system HIP 79098](#)”
8. A.-L. Maire, L. Rodet, F. Cantalloube, R. Galicher, W. Brandner, S. Messina, C. Lazzoni, D. Mesa, D Melnick, **J. C. Carson**, et al., 2019, *Astronomy & Astrophysics*, 624, A118 “[Hint of curvature in the orbital motion of the exoplanet 51 Eridani b using 3 yr of VLT/SPHERE monitoring](#)”
9. T. Currie, T. Brandt, T. Uyama, E. Nielsen, S. Blunt, O. Guyon, M. Tamura, C. Marois, K. Mede, M. Kuzuhara, T. Groff, N. Jovanovic, N. J. Kaskin, J. Lozi, K. Hodapp, J. Chilcote, **J. C. Carson**, et al., 2019, *Astronomical Journal*, 156, 291 “[SCEXAO/CHARIS Near-infrared Direct Imaging, Spectroscopy, and Forward-Modeling of \$\kappa\$ And b: A Likely Young, Low-gravity Superjovian Companion](#)”
10. E. Rich, J. Wisniewski, T. Currie, M. Fukagawa, C. Grady, M. Sitko, M. Pikhartova, J. Hashimoto, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2019, *Astrophysical Journal*, 875, 38 “[Multi-epoch Direct Imaging and Time-variable Scattered Light Morphology of the HD 163296 Protoplanetary Disk](#)”
11. T. Mizuki, M. Kuzuhara, K. Mede, J. Schlieder, M. Janson, T. Brandt, T. Hirano, N. Narita, J. Wisniewski, T. Yamada, B. Biller, M. Bonnefoy, **J. C. Carson**, et al., 2018, *Astrophysical Journal*, 865, 152 “[Orbital Characterization of GJ1108A System, and Comparison of Dynamical Mass with Model-derived Mass for Resolved Binaries](#)”
12. A. Boccaletti, E. Sezestre, A.-M. Lagrange, P. Thebault, R. Gratton, M. Langlois, C. Thalmann, M. Janson, P. Delorme, J.-C. Augereau, G. Schneider, J. Milli, C. Grady, J. Debes, Q. Kral, J. Olofsson, **J. C. Carson**, et al., 2018, *Astronomy & Astrophysics*, 614, 52 “[Observations of fast-moving features in the debris disk of AU Mic on a three-year timescale: Confirmation and new discoveries](#)”
13. T. Uyama, J. Hashimoto, T. Muto, E. Akiyama, R. Dong, J. de Leon, I. Sakon, T. Kudo, N. Kusakabe, M. Kuzuhara, M. Bonnefoy, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2018, *Astronomical Journal*, 156, 63 “[Subaru/HiCIAO HK_s Imaging of LKHa 330: Multi-band Detection of the Gap and Spiral-like Structures](#)”
14. Y. Yang, S. Mayama, S. Hayashi, J. Hashimoto, R. Rafikov, E. Akiyama, T. Currie, M. Janson, M. Momose, T. Nakagawa, D. Oh, T. Kudo, N. Kusakabe, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2018, *Astrophysical Journal*, 861, 133 “[High-contrast Polarimetry Observation of the T Tau Circumstellar Environment](#)”
15. P. Delorme, T. Schmidt, M. Bonnefoy, S. Desidera, C. Ginski, B. Charnay, C. Lazzoni, V. Christiaens, S. Messina, V. D’Orazi, J. Milli, J. Schlieder, R. Gratton, L. Rodet, A.-M. Lagrange, O. Absil, A. Vigan, R. Galicher, J. Hagelberg, M. Bonavita, B. Lavie, A. Zurlo, J. Olofsson, A. Boccaletti, F. Cantalloube, D. Mouillet, G. Chauvin, F.-J. Hamsch, M. Langlois, S. Udry, T. Henning, J.-L. Beuzit, C. Mordasini, P. Lucas, F. Marocco, B. Biller, **J. C. Carson**, et al., 2017, *Astronomy & Astrophysics*, 608, 79 “[In-depth study of moderately young but extremely red, very dusty substellar companion HD 206893B](#)”
16. E. Rich, J. Wisniewski, M. McElwain, J. Hashimoto, T. Kudo, N. Kusakabe, Y. Okamoto, L. Abe, E. Akiyama, W. Brandner, T. Brandt, P. Cargile, **J. C. Carson**, et al., 2017, *MNRAS*, 472, 1736, “[The Fundamental Stellar Parameters of FGK Stars in the SEEDS Survey](#)”
17. A. Vigan, M. Bonavita, B. Biller, D. Forgan, K. Rice, G. Chauvin, S. Desidera, J.-C. Meunier, P.

- Delorme, J. Schlieder, M. Bonnefoy, **J. C. Carson**, et al., 2017, *Astronomy & Astrophysics*, 603, 3, “[The VLT/NaCo Large Program to Probe the Occurrence of Exoplanets and Brown Dwarfs at Wide Orbits. IV. Gravitational Instability Rarely Forms Wide, Giant Planets](#)”
18. M. Samland, P. Molliere, M. Bonnefoy, A.-L. Maire, F. Cantalloube, A. Cheetham, D. Mesa, R. Gratton, B. Biller, Z. Wahhaj, J. Bouwman, W. Brandner, D. Melnick, **J. C. Carson**, et al., 2017, *Astronomy & Astrophysics*, 603, 57, “[Spectral and Atmospheric Characterization of 51 Eridani b using VLT/SPHERE](#)”
 19. T. Currie, O. Guyon, M. Tamura, T. Kudo, N. Jovanovic, J. Lozi, J. Schlieder, T. Brandt, J. Kuhn, E. Serabyn, M. Janson, **J. C. Carson**, et al., 2017, *Astrophysical Journal*, 836, 15, “[Subaru/SCEAO First-light Direct Imaging of a Young Debris Disk around HD 36546](#)”
 20. T. Uyama, J. Hashimoto, M. Kuzuhara, S. Mayama, E. Akiyama, T. Currie, J. Livingston, T. Kudo, N. Kusakabe, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2017, *Astronomical Journal*, 153, 106, “[The SEEDS High-Contrast Imaging Survey of Exoplanets Around Young Stellar Objects](#)”
 21. E. Garcia, T. Currie, O. Guyon, K. Stassun, N. Jovanovic, J. Lozi, T. Kudo, D. Doughty, J. Schlieder, J. Kwon, T. Uyama, M. Kuzuhara, **J. C. Carson**, et al., 2017, *Astrophysical Journal*, 834, 162, “[SCEAO and GPI Y JHband Photometry and Integral Field Spectroscopy of the Young Brown Dwarf Companion to HD 1160](#)”
 22. Y. Yang, J. Hashimoto, S. Hayashi, M. Tamura, S. Mayama, R. Rafikov, E. Akiyama, **J. C. Carson**, et al., 2017, *Astronomical Journal*, 153, 7, “[Near-infrared Imaging Polarimetry of Inner Region of GG Tau A Disk](#)”
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