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<b>RESEARCH INTERESTS</b>	Extrasolar planets, circumstellar disks, stellar activity, image processing techniques, astronomical and medical imaging instrumentation	
<b>EDUCATION</b>	<b>Ph.D. in Astronomy</b>	<b>Cornell University</b> January 2005
	<b>M.S. in Astronomy</b>	<b>Cornell University</b> December 2003
	<b>B.A. in Physics</b>	<b>Pomona College</b> May 1999
<b>HONORS AND AWARDS</b>	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	2012-2014
	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
<b>PROFESSIONAL POSITIONS</b>	<b>College of Charleston</b>	
	<i>Associate Professor</i>	2015 - present
	<i>Assistant Professor</i>	2010 - 2015
	<b>Pensievision C-Corp</b>	
	<i>Co-Founder and Chief Technology Officer</i>	2015 - present
	<b>Universidad Nacional de Colombia</b>	
	<i>Fulbright Scholar</i>	2017
	<i>Visiting Professor Ad Honorem</i>	2017
	<b>Max-Planck-Institut für Astronomie</b>	
	<i>MPIA Fellow</i>	2007 - 2010

**Jet Propulsion Laboratory***NASA NPP Fellow*

2006 - 2007

*Caltech Postdoctoral Scholar*

2004 - 2006

**PROFESSIONAL  
SERVICE****President***Charleston Chapter of Sigma Xi – The Scientific Research Society*

2017

**Councilor***Council on Undergraduate Research*

2016 - present

*Oak Ridge Associated Universities*

2013 - present

**Referee***Monthly Notices of the Royal Astronomical Society*

2015

*American Journal of Physics*

2011, 2013, 2015

*Advances in Space Research*

2014

*Astrophysical Journal*

2013

*Astronomy & Astrophysics*

2010

*Optics Express*

2006

**Grant Reviewer***NASA*

2011, 2013, 2015, 2017

*Research Corporation for Science Advancement*

2013, 2014, 2015, 2016

*National Science Foundation*

2006, 2014

*Oak Ridge Associated Universities*

2012, 2013

*COST (Swiss Research Organization)*

2013

*FONDECYT (Chile National Science Foundation)*

2011, 2012

*FCT (Portuguese Foundation for Science & Technology)*

2012

*NWO (Dutch Scientific Research Organization)*

2010

**GRANTS AWARDED  
AS LEAD  
INVESTIGATOR****Fulbright Scholarship Award**, “Engaging Students in Colombia in Extrasolar Planet Studies”, (2016-2017), \$26,000.**NASA South Carolina Space Grant**, “Using HST Archival Data to Evaluate New Exoplanet Candidates Discovered by VLT/SPHERE”, (2016-2017), \$20,000.**NASA South Carolina 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 South Carolina 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.

**NSF AST Grant**, “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 South Carolina 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 Space Grant Graduate Fellowship**, (2002-2003), \$40,000.

**GRANTS AWARDED AS CO-INVESTIGATOR\*** **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 Institute 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.

**NSF Major Instrumentation Grant**, “Development of a Visible-Light Adaptive Optics Upgrade at Palomar Mountain”, (2006-2008), \$1.1 million

**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

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

RESEARCH  
STUDENTS  
SUPERVISED

**Vianny Estrada:** “Spectroscopic Monitoring of Young Stars with Circumstellar Disks, to Investigate the Impact of Stellar Activity on Planet Formation and Evolution”, 2017  
**Rafael Hurtado:** “Exoplanet Studies with the Subaru SEEDS Survey”, 2017  
**Blake Mino:** “A Novel 3D Imaging Technique for Cancer Diagnoses”, 2017  
**Elyana Crowder** (SURF Fellow, MAYS Fellow): “A Novel 3D Imaging Technique for Cancer Diagnoses”, 2016-2017  
**Lennart Langouche:** “A Fiber-Based Liquid Lens Endoscope”, 2017  
**Jerson Huerfano:** “Exoplanet Imaging with the Hubble Space Telescope”, 2017  
**David Melnick** (NASA USRF Fellow, SURF Fellow, MAYS Fellow): “Exoplanet Imaging with the Spitzer and Hubble Space Telescope”, 2015-2017  
**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  
**Kevin Gainey** (Boeing Scholar): “Brown Dwarfs Around Radial Velocity Planet Systems”, 2012-2013  
**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

PEER REVIEWED  
PUBLICATIONS

1. 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](#)”
2. 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](#)”
3. 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](#)”
4. 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/SCEXAO First-light Direct Imaging of a Young Debris Disk around HD 36546](#)”
5. 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](#)”
6. 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, “[SCEXAO and GPI Y JHBand Photometry and Integral Field Spectroscopy of the Young Brown Dwarf Companion to HD 1160](#)”
7. 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](#)”
8. R. Kooistra, I. Kamp, M. Fukagawa, F. Menard, M. Momose, T. Tsukagoshi, T. Kudo, N. Kusakabe, J. Hashimoto, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2017, Astronomy & Astrophysics, 597, 132, “[Radial decoupling of small and large dust grains in the transitional disk RX J1615.3-3255](#)”
9. L. Roberts, B. Mason, J. Aguilar, **J. C. Carson**, et al., 2016, Astronomical Journal, 151, 169, “[Characterization of the Companion  \$\mu\$  Her](#)”
10. S. Durkan, M. Janson, **J. C. Carson**, et al., 2016, Astrophysical Journal, 824, 58, “[High Contrast Imaging with Spitzer: Constraining the Frequency of Giant Planets out to 1000 au Separations](#)”
11. T. Ryu, B. Sato, M. Kuzuhara, N. Narita, Y. Takahashi, T. Uyama, T. Kudo, N. Kusakabe, J. Hashimoto, M. Omiya, H. Harakawa, L. Abe, H. Ando, W. Brandner, T. Brandt, **J. C. Carson**,

- et al., 2016, *Astrophysical Journal*, 825, 127, “[High-contrast Imaging of Intermediate-mass Giants with Long-term Radial Velocity Trends](#)”
12. E. Akiyama, J. Hashimoto, H. baobabu Liu, J. i-hsiu Li, M. Bonnefoy, R. Dong, Y. Hasegawa, T. Henning, M. Sitko, M. Janson, M. Feldt, J. Wisniewski, T. Kudo, N. Kusakabe, T. Tsukagoshi, M. Momose, T. Muto, T. Taki, M. Kuzuhara, M. Satoshi, M. Takami, N. Ohashi, C. Grady, J. Kwon, C. Thalmann, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2016, *Astronomical Journal*, 152, 222, “[Spiral Structure and Differential Dust Size Distribution in the LKH \$\alpha\$  330 Disk](#)”
  13. R. Asensio-Torres, M. Janson, J. Hashimoto, C. Thalmann, T. Currie, E. Buenzli, T. Kudo, M. Kuzuhara, N. Kusakabe, L. Abe, E. Akiyama, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2016, *Astronomy & Astrophysics*, 593, 73, “[Polarimetry and flux distribution in the debris disk around HD 32297](#)”
  14. T. Mizuki, T. Yamada, **J. C. Carson**, et al., 2016, *Astronomy & Astrophysics*, 595, 79, “[High-contrast imaging of  \$\epsilon\$  Eridani with ground-based instruments](#)”
  15. D. Oh, J. Hashimoto, **J. C. Carson**, et al., 2016, *Astrophysical Journal*, 831, 7, “[Resolved Near-infrared Image of the Inner Cavity in the GM Aur Transitional Disk](#)”
  16. E. Rich, T. Currie, J. Wisniewski, J. Hashimoto, T. Brandt, **J. C. Carson**, et al., 2016, *Astrophysical Journal*, 830, 114, “[Thermal Infrared Imaging and Atmospheric Modeling of VHS J125601.92-125723.9 b: Evidence for Moderately Thick Clouds and Equilibrium Carbon Chemistry in a Hierarchical Triple System](#)”
  17. M. Janson, C. Thalmann, A. Boccaletti, A.-L. Maire, A. Zurlo, F. Marzari, M. Meyer, **J. C. Carson**, et al., 2016, *Astrophysical Journal*, 816, 1, “[Detection of Sharp Symmetric Features in the Circumbinary Disk around AK Sco](#)”
  18. M. Konishi, C. Grady, G. Schneider, H. Shibai, M. McElwain, E. Nesvold, M. Kuchner, **J. C. Carson**, et al., 2016, *Astrophysical Journal*, 818, 23, “[Discovery of an Inner Disk Component around HD 141569 A](#)”
  19. K. Helminiak, M. Kuzuhara, K. Mede, T. Brandt, R. Kandori, T. Suenaga, N. Kusakabe, N. Narita, **J. C. Carson**, et al., 2016, *Astrophysical Journal*, 832, 33, “[SEEDS Direct Imaging of the RV-detected Companion to V450 Andromedae, and Characterization of the System](#)”
  20. Y. Ohta, M. Fukagawa, M. Sitko, T. Muto, S. Kraus, C. Grady, J. Wisniewski, J. Swearingen, H. Shibai, T. Sumi, J. Hashimoto, T. Kudo, N. Kusakabe, M. Momose, Y. Okamoto, T. Kotani, M. Takami, T. Currie, C. Thalmann, M. Janson, E. Akiyama, K. Follette, S. Mayama, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2016, *Publications of the Astronomical Society of Japan*, 68, 53 “[Extreme Asymmetry in the Polarized Disk of V1247 Orionis](#)”
  21. M. Reggiani, M. Meyer, G. Chauvin, A. Vigan, S. Quanz, B. Biller, M. Bonavita, S. Desidera, P. Delorme, J. Hagelberg, A.-L. Maire, A. Boccaletti, J.-L. Beuzit, E. Buenzli, **J. C. Carson**, et al., 2016, *Astronomy & Astrophysics*, 586, 147, “[The VLT/NaCo large program to probe the occurrence of exoplanets and brown dwarfs at wide orbits . III. The frequency of brown dwarfs and giant planets as companions to solar-type stars](#)”
  22. D. Oh, J. Hashimoto, M. Tamura, J. Wisniewski, E. Akiyama, T. Currie, S. Mayama, M. Takami, C. Thalmann, T. Kudo, N. Kusakabe, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2016, *Publications of the Astronomical Society of Japan*, 68, 3, “[Near-infrared imaging polarimetry of LkCa 15: A possible warped inner disk](#)”

23. G. Schneider, C. Grady, C. Stark, A. Gaspar, **J. C. Carson**, et al., 2016, *Astronomical Journal*, 152, 64 “[Deep HST/STIS Visible-light Imaging of Debris Systems around Solar Analog Hosts](#)”
24. J. Lomax, J. Wisniewski, C. Grady, M. McElwain, J. Hashimoto, T. Kudo, N. Kusakabe, Y. Okamoto, M. Fukagawa, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2016, *Astrophysical Journal*, 828, 2, “[Constraining the Movement of the Spiral Features and the Locations of Planetary Bodies within the AB Aur System](#)”
25. M. Konishi, T. Matsuo, K. Yamamoto, M. Samland, J. Sudo, H. Shibai, Y. Itoh, M. Fukagawa, T. Sumi, T. Kudo, J. Hashimoto, M. Kuzuhara, N. Kusakabe, L. Abe, E. Akiyama, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2016, *Publications of the Astronomical Society of Japan*, 68, 92, “[A substellar companion to Pleiades HII 3441](#)”
26. A. Boccaletti, C. Thalmann, A.-M. Lagrange, M. Janson, J.-C. Augereau, G. Schneider, J. Milli, C. Grady, J. Debes, M. Langlois, D. Mouillet, T. Henning, C. Dominik, A.-L. Maire, J.-L. Beuzit, **J. C. Carson**, et al., 2015, *Nature*, 526, 230, “[Fast-Moving Features in the Debris Disk Around AU Microscopii](#) ”
27. T. Currie, C. Lisse, M. Kuchner, N. Madhusudhan, S. Kenyon, C. Thalmann, **J. C. Carson**, & J. Debes, 2015, *Astrophysical Journal Letters*, 807, 7, “[Direct Imaging and Spectroscopy of a Young Extrasolar Kuiper Belt in the Nearest OB Association](#)” [[Featured in Nature News.](#)]
28. E. Rich, J. Wisniewski, S. Mayama, T. Brandt, J. Hashimoto, T. Kudo, N. Kusakabe, C. Espaillat, L. Abe, E. Akiyama, W. Brandner, **J. C. Carson**, et al., 2015, *Astronomical Journal*, 150, 86, “[Near-IR Polarized Scattered Light Imagery of the DoAr 28 Transitional Disk](#) ”
29. C. Thalmann, G. Mulders, M. Janson, J. Olofsson, M. Benisty, H. Avenhaus, X. Quanz, H. Schmid, T. Henning, E. Buenzli, F. Menard, **J. C. Carson**, et al., 2015, *Astrophysical Journal*, 808, 41, “[Optical Imaging Polarimetry of the LkCa 15 Protoplanetary Disk with SPHERE ZIMPOL](#) ”
30. M. Momose, A. Morita, M. Fukagawa, T. Muto, T. Takeuchi, J. Hashimoto, M. Honda, T. Kudo, Y. Okamoto, K. Kanagawa, H. Tanaka, C. Grady, M. Sitko, E. Akiyama, T. Currie, K. Follette, S. Mayama, N. Kusakabe, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2015, *Publications of the Astronomical Society of Japan*, 67, 83, “[Detailed structure of the outer disk around HD 169142 with polarized light in H-band](#)”
31. M. Janson, S. Quanz, **J. C. Carson**, et al., 2015, *Astronomy & Astrophysics*, 574, 120, “[High-contrast Imaging with Spitzer: Deep Observations of Vega, Fomalhaut, and epsilon Eridani](#)”
32. S. Desidera, E. Covino, S. Messina, **J. C. Carson**, et al., 2015, *Astronomy & Astrophysics*, 573, 126 “[The VLT/NaCo Large Program to Probe the Occurrence of Exoplanets and Brown Dwarfs in Wide Orbits: I- Sample Definition and Characterization](#)”
33. E. Akiyama, T. Muto, N. Kusakabe, A. Kataoka, J. Hashimoto, T. Tsukagoshi, J. Kwon, T. Kudo, R. Kandori, C. Grady, M. Takami, M. Janson, M. Kuzuhara, T. Henning, M. Sitko, **J. C. Carson**, et al., 2015, *Astrophysical Journal Letters*, 802, 17, “[Discovery of a Disk Gap Candidate at 20 AU in TW Hydrae](#)”
34. C. Grady, M. Fukagawa, Y. Maruta, Y. Ohta, J. Wisniewski, J. Hashimoto, Y. Okamoto, M. Momose, T. Currie, M. McElwain, T. Muto, T. Kotani, N. Kusakabe, M. Feldt, M. Sitko, K. Follette, M. Bonnefoy, T. Henning, M. Takami, J. Karr, J. Kwon, T. Kudo, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2015, *Astrophysics and Space Science*, 355, 253, “[The outer disks of Herbig stars from the UV to NIR](#)”

35. J. de Leon, M. Takami, J. Karr, J. Hashimoto, T. Kudo, M. Sitko, S. Mayama, N. Kusakabe, E. Akiyama, H. Liu, T. Usuda, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2015, *Astrophysical Journal Letters*, 806, 10, “[Near-IR High-resolution Imaging Polarimetry of the SU Aur Disk: Clues for Tidal Tails?](#)”
36. M. Konishi, H. Shibai, T. Sumi, M. Fukagawa, T. Matsuo, M. Samland, K. Yamamoto, J. Sudo, Y. Itoh, N. Arimoto, M. Kajisawa, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2015, *Publications of the Astronomical Society of Japan*, 67, 1, “[Indications of M-dwarf deficits in the halo and thick disk of the Galaxy](#)”
37. J. Hashimoto, T. Tsukagoshi, J. Brown, R. Dong, T. Muto, Z. Zhu, J. Wisniewski, N. Ohashi, T. Kudo, N. Kusakabe, L. Abe, E. Akiyama, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2015, *Astrophysical Journal*, 799, 43, “[The Structure of Pre-transitional Protoplanetary Disks. II. Azimuthal Asymmetries, Different Radial Distributions of Large and Small Dust Grains in PDS~70](#)”
38. K. Follette, C. Grady, J. Swearingen, M. Sitko, E. Champney, N. van der Marel, M. Takami, M. Kuchner, L. Close, T. Muto, S. Mayama, M. McElwain, M. Fukagawa, K. Maaskant, M. Min, R. Russell, T. Kudo, N. Kusakabe, J. Hashimoto, L. Abe, E. Akiyama, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2015, *Astrophysical Journal*, 798, 132, “[SEEDS Adaptive Optics Imaging of the Asymmetric Transition Disk Oph IRS 48 in Scattered Light](#)”
39. G. Chauvin, A. Vigan, M. Bonnefoy, S. Desidera, M. Bonavita, D. Mesa, A. Boccaletti, E. Buenzli, **J. C. Carson**, et al., 2015, *Astronomy & Astrophysics*, 573, 127 “[The VLT/NaCo Large Program to Probe the Occurrence of Exoplanets and Brown Dwarfs in Wide Orbits: II-Survey Description, Results and Performances](#)”
40. C. Thalmann, S. Desidera, M. Bonavita, M. Janson, T. Usuda, T. Henning, C. Bergfors, A. Boccaletti, W. Brandner, **J. C. Carson**, et al., 2014, *Astronomy & Astrophysics*, 572, 91, “[SPOTS: The Search for Planets Orbiting Two Stars I. Survey Description and First Observations](#)”
41. Y. Itoh, Y. Oasa, T. Kudo, N. Kusakabe, J. Hashimoto, L. Abe, W. Brandner, T. Brandt, **J. C. Carson**, et al., 2014, *Research in Astronomy & Astrophysics*, 14, 1438, “[Near-infrared polarimetry of the GG Tauri A binary system](#)”
42. T. Brandt, M. McElwain, E. Turner, K. Mede, D. Spiegel, M. Kuzuhara, J. Schlieder, J. Wisniewski, L. Abe, B. Biller, W. Brandner, **J. C. Carson**, et al., 2014, *Astrophysical Journal*, 794, 159, “[A Statistical Analysis of SEEDS and Other High-contrast Exoplanet Surveys: Massive Planets or Low-mass Brown Dwarfs?](#)”
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**J. C. Carson**, S. Esener, & K. Liu, “[Methods, Systems, Software and Devices for Remote, Miniaturized, and Three-Dimensional Imaging and Analysis of Human Lesions; Research and Clinical Applications](#)”, U.S. Provisional Pat. Ser. No., May 2017.