

CONTACT INFORMATION	Dept. of Physics & Astronomy College of Charleston 66 George St. Charleston, SC 29424 USA	<i>Phone:</i> (843) 953-3643 <i>Fax:</i> (843) 953-4824 <i>Email:</i> carsonjc@cofc.edu <i>WWW:</i> carsonjc.people.cofc.edu
RESEARCH INTERESTS	Extrasolar planets, circumstellar disks, stellar activity, image processing techniques, astronomical and medical imaging instrumentation	
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	Fulbright Scholarship InnoVision Award for Technology Application Distinguished Research Award, College of Charleston Gordon E. Jones Distinguished Achievement Award, College of Charleston Research Corporation Cottrell College Science Award Co-discovery of GJ 758 B - TIME Magazine Top 10 Science Discoveries of 2009 MPIA Fellowship NASA NPP Fellowship NASA Space Grant Graduate Fellowship Frank P. Brackett Prize in Astronomy, Pomona College	2016 2014 2014 2014 2012-2014 2009 2008-2010 2007-2008 2002-2003 1999
PROFESSIONAL POSITIONS	College of Charleston	
	<i>Associate Professor</i>	2015 - present
	<i>Assistant Professor</i>	2010 - 2015
	Pensievision C-Corp	
	<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*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****NASA SC Space Grant**, “Palmetto Research Academy: Investigating the Impact of Episodic Stellar Activity on Planet Formation and Evolution”, (2018), \$18,000.**Fulbright Scholarship Award**, “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.

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 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* **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?](#)”
43. M. Takami, Y. Hasegawa, T. Muto, P.-G. Gu, R. Dong, J. Karr, J. Hashimoto, N. Kusakabe, E. Chapillon, Y.-W. Tang, Y. Itoh, **J. C. Carson**, et al., 2014, *Astrophysical Journal*, 795, 71, “[Surface Geometry of Protoplanetary Disks Inferred From Near-Infrared Imaging Polarimetry](#)”
44. S. Baghdadchi, K. Liu, J. Knapp, G. Prager, S. Graves, K. Akrami, R. Manuel, R. Bastos, E. Reid, D. Carson, S. Esener, **J. C. Carson**, & Y.-T. Liu, 2014, *Journal of Translational Medicine*, 12, 169, “[An innovative System for 3D Clinical Photography in the Resource-Limited Settings](#)” [Project leaders are last two authors.] [[Discovery resulted in 2014 InnoVision Award.](#)]
45. G. Schneider, C. Grady, D. Hines, C. Stark, J. Debes, **J. C. Carson**, et al. 2014, *Astronomical Journal*, 148, 59, “[Probing for Exoplanets Hiding in Dusty Debris Disks: Disk Imaging, Characterization, and Exploration with HST/STIS Multi-Roll Coronagraphy](#)” [[Journal cover article](#)]
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