

CURRICULUM VITAE

MARK REUBEN KRUMHOLZ

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PROFESSIONAL APPOINTMENTS

- Dec. 2015 - Research School of Astronomy and Astrophysics, Australian National University
and Mt. Stromlo Observatory
Full Professor (Level E)
- Sep. 2012 - Dec. 2015 University of California, Santa Cruz, Astronomy and Astrophysics Department
Associate Professor
- Aug. 2008 - Aug. 2012 University of California, Santa Cruz, Astronomy and Astrophysics Department
Assistant Professor
- Aug. 2005 - July 2008 Princeton University, Astrophysics Department
Hubble, Spitzer, and Council on Science and Technology Postdoctoral Fellow

EDUCATION

- Aug. 2005 University of California, Berkeley
Doctor of Philosophy, Physics
- May 2000 University of California, Berkeley
Master of Arts, Physics
- June 1998 Princeton University
*Bachelor of Arts, Physics with Certificate in Applied and Computational
Mathematics, summa cum laude*

AWARDS AND HONORS

- 2016 Hunstead Lectureship, Sydney Institute for Astronomy, University of Sydney
- 2015 Blaauw Professorship, Kapteyn Astronomical Institute, University of Gröningen
- 2015 Benjamin Dean Lecturer, California Academy of Sciences
- 2013 Helen B. Warner Prize, American Astronomical Society
- 2010 National Science Foundation CAREER award
- 2009 Alfred P. Sloan Research Fellowship
- 2007 Participant in Kavli / National Academy of Sciences Japanese-American
Frontiers of Science Symposium
- 2006 Princeton University Society of Fellows membership (declined)
- 2005 Hubble Postdoctoral Fellowship
- 2005 NSF Postdoctoral Fellowship (declined)
- 2005 Lyman Spitzer, Jr. Postdoctoral Fellowship
- 2005 Council on Science and Technology Fellowship (Princeton University)
- 2005 Mary Elizabeth Uhl Dissertation Prize (UC Berkeley)
- 2001 NASA Graduate Student Researcher Program Fellowship
- 2000 Hertz Foundation Fellowship Finalist
- 1999 Outstanding Graduate Student Instructor Award (UC Berkeley)
- 1998 NSF Graduate Fellowship
- 1998 Kusaka Memorial Award (Princeton University)

6. **Krumholz, M. R.** 2015, “The Formation of Very Massive Stars”, in *Very Massive Stars in the Local Universe*, ed. J. S. Vink, Springer, 412, 43.
5. Dobbs, C. L., **Krumholz, M. R.**, Ballesteros-Paredes, J., Bolatto, A., Fukui, Y., Heyer, M., Mac Low, M.-M., Ostriker, E. C., & Vazquez-Semadeni, E. 2014, “Formation of Molecular Clouds and Global Conditions for Star Formation”, in *Protostars & Planets VI*, eds. H. Beuther, R. Klessen, C. Dullemond, Th. Henning, U. of Arizona Press, pp. 3-26.
4. **Krumholz, M. R.**, Bate, M. R., Arce, H. G., Dale, J. E., Gutermuth, R., Klein, R. I., Li, Z.-Y., Nakamura, F., & Zhang, Z. 2014, “Star Cluster Formation and Feedback”, in *Protostars & Planets VI*, eds. H. Beuther, R. Klessen, C. Dullemond, Th. Henning, U. of Arizona Press, pp. 243-266.
3. Tan, J. C., Beltran, M. T., Caselli, P., Fontani, F., Fuente, A., **Krumholz, M. R.**, McKee, C. F., & Stolte, A. 2014, “Massive Star Formation”, in *Protostars & Planets VI*, eds. H. Beuther, R. Klessen, C. Dullemond, Th. Henning, U. of Arizona Press, pp. 149-172.
2. **Krumholz, M. R.** 2014, “The Big Problems in Star Formation: the Star Formation Rate, Stellar Clustering, and the Initial Mass Function”, *Physics Reports*, 539, 49.
1. Klessen, R., & **Krumholz, M. R.**, & Heitsch, F. 2011, “Numerical Star-Formation Studies – A Status Report”, *Advanced Science Letters*, 4, 258.

BOOKS

1. **Krumholz, M. R.** 2017, *Star Formation*, World Scientific Publishing: Singapore (528 pages), ISBN 978-981-3142-02-2.

REFEREED PUBLICATIONS

* indicates an author who was a directly supervised student or postdoc

132. **Krumholz, M. R.**, & Ting, Y. S. 2017, “Metallicity Fluctuation Statistics in the Interstellar Medium and Young Stars. I. Variance and Correlation”, submitted to *Monthly Notices of the Royal Astronomical Society*.
131. **Krumholz, M. R.**, Burkhart, B., Forbes, J. C., & Crocker, R. M.* 2017, “A Unified Model for Galactic Discs: Star Formation, Turbulence Driving, and Mass Transport”, submitted to *Monthly Notices of the Royal Astronomical Society*, arXiv:1706.00106.
130. Birnboim, Y., Federrath, C., & **Krumholz, M. R.** 2017, “Compression of Turbulent Magnetised Gas in Giant Molecular Clouds”, submitted to *Monthly Notices of the Royal Astronomical Society*, arXiv:1705.09657.
129. Issaoun, S., Goddi, C., Matthews, L. D., Greenhill, L. J., Gray, M. D., Humphreys, E. M. L., Chandler, C. J., **Krumholz, M. R.**, & Falcke, H. 2017, “VLBA imaging of the 3mm SiO maser emission in the disk-wind from the massive protostellar system Orion Source I”, *Astronomy & Astrophysics*, in press, arXiv:1707.07455.
128. **Krumholz, M. R.**, Thompson, T. A., Ostriker, E. C., & Martin, C. L. 2017, “The Observable Properties of Cool Winds from Galaxies, AGN, and Star Clusters. I. Theoretical Framework”, *Monthly Notices of the Royal Astronomical Society*, 471, 4061.
127. Ashworth, G., *et al.* 2017, “Exploring the IMF of star clusters: a joint SLUG and LEGUS effort”, *Monthly Notices of the Royal Astronomical Society*, 469, 2464.
126. Guszejnov, D., Hopkins, P. F., & **Krumholz, M. R.** 2017, “Protostellar Feedback in Turbulent Fragmentation: Consequences for Stellar Clustering and Multiplicity”, *Monthly Notices of the Royal Astronomical Society*, 468, 4093.
125. Grasha, K., *et al.* 2017, “Hierarchical Star Formation in Turbulent Media: Evidence from Young Star Clusters”, *The Astrophysical Journal*, 842, 25.
124. Adamo, A., *et al.* 2017, “Legacy ExtraGalactic UV Survey with The Hubble Space Telescope. Stellar cluster catalogues and first insights into cluster formation and evolution in NGC 628”, *The Astrophysical Journal*, 841, 131.

123. Narayanan, D., & **Krumholz, M. R.** 2017, “A physical model for the [C II]-FIR deficit in luminous galaxies”, *Monthly Notices of the Royal Astronomical Society*, 467, 50.
122. **Krumholz, M. R.**, Kruijssen, J. M. D., & Crocker, R. 2017, “A Dynamical Model for Gas Flows, Star Formation, and Nuclear Winds in Galactic Centres”, *Monthly Notices of the Royal Astronomical Society*, 466, 1213.
121. Jiménez-Donaire, M. J., *et al.* 2017, “Optical depth estimates and effective critical densities of dense gas tracers in the inner parts of nearby galaxy discs”, *Monthly Notices of the Royal Astronomical Society*, 466, 49.
120. Gentry, E. S.*, **Krumholz, M. R.**, Dekel, A., & Madau, P. M. 2016, “Enhanced momentum feedback from clustered supernovae”, *Monthly Notices of the Royal Astronomical Society*, 465, 2471.
119. Safronek-Shrader, C. T.*, **Krumholz, M. R.**, Kim, C.-G., Ostriker, E. C., Klein, R. I., Li, S., McKee, C. F., & Stone, J. M. 2017, “Chemistry and radiative shielding in star forming galactic disks”, *Monthly Notices of the Royal Astronomical Society*, 465, 885.
118. Rosen, A. L.*, **Krumholz, M. R.**, Oishi, J. S., Lee, A. T., & Klein, R. I. 2017, “Hybrid Adaptive Ray-Moment Method (HARM²): A Highly Parallel Method for Radiation Hydrodynamics on Adaptive Grids”, *Journal of Computational Physics*, 330, 924.
117. Jiménez-Donaire, M. J., *et al.* 2017, “¹³CO / C¹⁸O Gradients Across the Discs of Nearby Spiral Galaxies”, *The Astrophysical Journal*, 836, L29.

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116. Guo, Y., *et al.* 2016, “The Bursty Star Formation Histories of Low-mass Galaxies at $0.4 < z < 1$ Revealed by Star Formation Rates Measured from FUV and H β ”, *The Astrophysical Journal*, 833, 37.
115. Mandelker, N., Padnos, D., Dekel, A., Birnboim, Y., Burkert, A., **Krumholz, M. R.**, & Steinberg, E. 2016, “Instability of Supersonic Cold Streams Feeding Galaxies I: Linear Kelvin-Helmholtz Instability with Body Modes”, *Monthly Notices of the Royal Astronomical Society*, 463, 3921.
114. Rosen, A. L.*, **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2016, “An Unstable Truth: How Massive Stars Get Their Mass”, *Monthly Notices of the Royal Astronomical Society*, 463, 2553.
113. **Krumholz, M. R.**, Myers, A. T., Klein, R. I., & McKee, C. F. 2016, “What physics determines the peak of the IMF? Insights from the structure of cores in radiation-magnetohydrodynamic simulations”, *Monthly Notices of the Royal Astronomical Society*, 460, 3272.
112. Goldbaum, N. J.*, **Krumholz, M. R.**, & Forbes, J. C.* 2016, “Mass Transport and Turbulence in Gravitationally-Unstable Disk Galaxies. II: The Effects of Star Formation Feedback”, *The Astrophysical Journal*, 827, 28.
111. Forbes, J. C.*, **Krumholz, M. R.**, Goldbaum, N. J.*, & Dekel, A. 2016, “Suppression of star formation in dwarf galaxies by grain photoelectric feedback”, *Nature*, 535, 523.
110. **Krumholz, M. R.**, & Burkert, B. 2016, “Is Turbulence in the Interstellar Medium Driven by Feedback or Gravity? An Observational Test”, *Monthly Notices of the Royal Astronomical Society*, 458, 1671.
109. Guszejnov, D., **Krumholz, M. R.**, & Hopkins, P. F. 2016, “The Necessity of Feedback Physics in Setting the Peak of the Initial Mass Function”, *Monthly Notices of the Royal Astronomical Society*, 458, 673.
108. Thompson, T. A., & **Krumholz, M. R.** 2016, “Sub-Eddington Star-Forming Regions are Super-Eddington: Momentum Driven Outflows from Supersonic Turbulence”, *Monthly Notices of the Royal Astronomical Society*, 455, 334.

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107. Goldbaum, N. J.*, **Krumholz, M. R.**, & Forbes, J. C.* 2015, “Mass Transport and Turbulence in Gravitationally-Unstable Disk Galaxies. I: The Case of Pure Self-Gravity”, *The Astrophysical Journal*, 814, 131.
106. **Krumholz, M. R.**, & Kruijssen, J. M. D. 2015, “A Dynamical Model for the Formation of Gas Rings and Episodic Starbursts Near Galactic Centres”, *Monthly Notices of the Royal Astronomical Society*, 453, 739.

105. **Krumholz, M. R.**, *et al.* 2015, “Star Cluster Properties in LEGUS Galaxies Computed with Stochastic Stellar Population Synthesis Models”, *The Astrophysical Journal*, 812, 147.
104. Calzetti, D., *et al.* 2015, “The Brightest Young Star Clusters in NGC 5253”, *The Astrophysical Journal*, 811, 75.
103. Michałowski, M. .J., *et al.* 2015, “Massive stars formed in atomic hydrogen reservoirs: HI observations of gamma-ray burst host galaxies”, *Astronomy & Astrophysics*, 582, A78.
102. Tripathi, A.* , Kratter, K. M., Murray-Clay, R., & **Krumholz, M. R.** 2015, “Simulated Photoevaporative Mass Loss from Hot Jupiters in 3D”, *The Astrophysical Journal*, 808, 173.
101. **Krumholz, M. R.**, Fumagalli, M., da Silva, R. L.* , Rendahl, T.* , & Parra, J.* 2015, “Stochastically Lighting Up Galaxies III: A Suite of Tools for Simulated Photometry, Spectroscopy, and Bayesian Inference with Stochastic Stellar Populations”, *Monthly Notices of the Royal Astronomical Society*, 452, 1447.
100. Kriek, M., *et al.* 2015, “The MOSFIRE Deep Evolution Field (MOSDEF) Survey: Rest-Frame Optical Spectroscopy For ~ 1500 H-Selected Galaxies at $1.37 < z < 3.8$ ”, *The Astrophysical Journal Supplement*, 218, 15.
99. **Krumholz, M. R.**, & Forbes, J. C.* 2015, “VADER: A Flexible, Robust, Open-Source Code for Simulating Viscous Thin Accretion Disks”, *Astronomy and Computing*, 11, 1.
98. Petit, A.* , **Krumholz, M. R.**, Goldbaum, N. J.* , & Forbes, J. C.* 2015, “Mixing and transport of metals by gravitational instability-driven turbulence in galactic discs”, *Monthly Notices of the Royal Astronomical Society*, 449, 2588.
97. Calzetti, D., *et al.* 2015, “Legacy ExtraGalactic UV Survey (LEGUS) with The Hubble Space Telescope. I. Survey Description”, *The Astronomical Journal*, 149, 51.

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96. da Silva, R. L.* , Fumagalli, M., & **Krumholz, M. R.** 2014, “Stochastically Lighting Up Galaxies II: Quantifying the Effects of Stochasticity on Star Formation Rate Indicators”, *Monthly Notices of the Royal Astronomical Society*, 444, 3275.
95. Lopez, L. A.* , **Krumholz, M. R.**, Bolatto, A. D., Prochaska, J. X., Ramirez-Ruiz, E., & Castro, D. 2014, “The Role of Stellar Feedback in the Dynamics of HII Regions”, *The Astrophysical Journal*, 795, 121.
94. Feng, Y.* , & **Krumholz, M. R.** 2014, “On the Origin of Chemical Homogeneity in Open Star Clusters”, *Nature*, 513, 523.
93. Forbes, J. C.* , **Krumholz, M. R.**, Burkert, A., & Dekel, A. 2014, “On the Origin of the Fundamental Metallicity Relation and the Scatter in Galaxy Scaling Relations”, *Monthly Notices of the Royal Astronomical Society*, 443, 168.
92. Andrews, J. E., *et al.* 2014, “Big Fish in Small Ponds: Massive Stars in the Low Mass Clusters of M83”, 2014, *The Astrophysical Journal*, 793, 4.
91. Rosen, A. L.* , Lopez, L. A., **Krumholz, M. R.**, & Ramirez-Ruiz, E. 2014, “Gone with the Wind: Where is the Missing Stellar Wind Energy from Massive Star Clusters?”, 2014, *Monthly Notices of the Royal Astronomical Society*, 442, 2701.
90. Narayanan, D., & **Krumholz, M. R.** 2014, “A Theory for the Excitation of CO in Star-Forming Galaxies”, *Monthly Notices of the Royal Astronomical Society*, 442, 1411.
89. Myers, A. T., Klein, R. I., McKee, C. F., & **Krumholz, M. R.** 2014, “Star Cluster Formation in Turbulent, Magnetized Dense Clumps with Radiative and Outflow Feedback”, *Monthly Notices of the Royal Astronomical Society*, 439, 3420.
88. da Silva, R. L.* , **Krumholz, M. R.**, Fumagalli, M., & Fall, S. M. 2014, “An Analytic Method to Compute Cluster Luminosity Statistics”, *Monthly Notices of the Royal Astronomical Society*, 438, 2355.
87. Forbes, J. C.* , **Krumholz, M. R.**, Burkert, A., & Dekel, A. 2014, “Balance Among Gravitational Instability, Star Formation, and Accretion Determines the Structure and Evolution of Disk Galaxies”, *Monthly Notices of the Royal Astronomical Society* 438, 1551.

86. Kim, J.-H.* , *et al.* 2014, “The AGORA High-Resolution Galaxy Simulations Comparison Project”, *The Astrophysical Journal Supplement*, 210, 14.
85. **Krumholz, M. R.** 2014, “DESPOTIC – A New Software Library to Derive the Energetics and SPECTra of Optically Thick Interstellar Clouds”, *Monthly Notices of the Royal Astronomical Society*, 437, 1662.

— 2013 —

84. **Krumholz, M. R.** 2013, “The Star Formation Law in Molecular-Poor Galaxies”, *Monthly Notices of the Royal Astronomical Society*, 426, 2747.
83. Kim, J.-H.* , **Krumholz, M. R.**, Wise, J. H., Turk, M. J., Goldbaum, N. J., & Abel, T. 2013, “Dwarf Galaxies with Ionizing Radiation Feedback. II: Spatially-Resolved Star Formation Related”, *The Astrophysical Journal*, 779, 8.
82. Kuhlen, M., Madau, P., & **Krumholz, M. R.** 2013, “Dwarf Galaxy Formation with H₂-Regulated Star Formation: II. Gas-Rich Dark Galaxies at Redshift 2.5”, *The Astrophysical Journal*, 776, 34.
81. Kim, J.-H.* , **Krumholz, M. R.**, Wise, J. H., Turk, M. J., Goldbaum, N. J., & Abel, T. 2013, “Dwarf Galaxies with Ionizing Radiation Feedback. I: Escape of Ionizing Photons”, *The Astrophysical Journal*, 775, 109.
80. **Krumholz, M. R.**, & Thompson, T. A. 2013, “Numerical Simulations of Radiatively-Driven Dusty Winds”, *Monthly Notices of the Royal Astronomical Society*, 434, 2329.
79. Dekel, A., & **Krumholz, M. R.** 2013, “Steady Outflows in Giant Clumps of High-z Disk Galaxies During Migration and Growth by Accretion”, *Monthly Notices of the Royal Astronomical Society*, 432, 455.
78. Craig, J.* , & **Krumholz, M. R.** 2013, “Close Stellar Encounters in Young, Substructured, Dissolving Star Clusters: Statistics and Effects on Planetary Systems”, *The Astrophysical Journal*, 769, 150.
77. Verdolini, S.* , Yeh, S. C. C., **Krumholz, M. R.**, Matzner, C. D., & Tielens, A. G. G. M. 2013, “Line Emission from Radiation-Pressurized HII Regions: II. Dynamics and Population Synthesis”, *The Astrophysical Journal*, 769, 12.
76. Yeh, S. C. C., Verdolini, S.* , **Krumholz, M. R.**, Matzner, C. D., & Tielens, A. G. G. M. 2013, “Line Emission from Radiation-Pressurized HII Regions: I. Internal Structure and Line Ratios”, *The Astrophysical Journal*, 769, 11.
75. **Krumholz, M. R.**, Crutcher, R. M., & Hull, C. F. 2013, “Protostellar Disk Formation Enabled by Weak, Misaligned Magnetic Fields”, *The Astrophysical Journal Letters*, 767, L11.
74. Andrews, J. E., *et al.* 2013, “An IMF Study of the Dwarf Starburst Galaxy NGC 4214”, *The Astrophysical Journal*, 767, 51.
73. Myers, A. T., McKee, C. F., Cunningham, A. J., Klein, R. I., & **Krumholz, M. R.** 2013, “The Fragmentation of Massive, Magnetized Star-Forming Cores with Radiative Feedback”, *The Astrophysical Journal*, 766, 97.

— 2012 —

72. **Krumholz, M. R.**, & Thompson, T. A. 2012, “Direct Numerical Simulation of Radiation Pressure-Driven Turbulence and Winds in Star Clusters and Galactic Disks”, *The Astrophysical Journal*, 760, 155.
71. **Krumholz, M. R.** 2012, “Star Formation in Atomic Gas”, *The Astrophysical Journal*, 759, 9.
70. Yang, C.-C.* , & **Krumholz, M. R.** 2012, “Thermal-Instability-Driven Turbulent Mixing in Galactic Disks: I. Effective Mixing of Metals”, *The Astrophysical Journal*, 758, 48.
69. **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2012, “Radiation-Hydrodynamic Simulations of the Formation of Orion-Like Star Clusters II. The Initial Mass Function from Winds, Turbulence, and Radiation”, *The Astrophysical Journal*, 754, 71.
68. Dukes, D.* , & **Krumholz, M. R.** 2012, “Was the Sun Born in a Massive Cluster?”, *The Astrophysical Journal*, 754, 56.
67. Forbes, J. C.* , **Krumholz, M. R.**, & Burkert, A. 2012, “Evolving Gravitationally Unstable Disks Over Cosmic Time: Implications For Thick Disk Formation”, *The Astrophysical Journal*, 754, 48.

66. **Krumholz, M. R.**, & Dekel, A. 2012, “Metallicity-Dependent Quenching of Star Formation at High Redshift in Small Galaxies”, *The Astrophysical Journal*, 753, 16.
65. Walter, F., *et al.* 2012, “The Intense Starburst HDF850.1 in a Galaxy Overdensity at $z = 5.2$ in the Hubble Deep Field”, *Nature*, 486, 233.
64. Narayanan, D., **Krumholz, M. R.**, Ostriker, E. C., & Hernquist, L. 2012, “A General Model for the CO-H₂ Conversion Factor in Galaxies with Applications to the Star Formation Law”, *Monthly Notices of the Royal Astronomical Society*, 421, 3127.
63. Kuhlen, M., **Krumholz, M. R.**, Madau, P., Smith, B., & Wise, J. 2012, “Dwarf Galaxy Formation with H₂-Regulated Star Formation”, *The Astrophysical Journal*, 749, 36.
62. Rosen, A. L.*, **Krumholz, M. R.**, & Ramirez-Ruiz, E. 2012, “What Sets the Initial Rotation Rates of Massive Stars?”, *The Astrophysical Journal*, 748, 97.
61. Gendeleev, L.*, & **Krumholz, M. R.** 2012, “Evolution of Blister-Type H II Regions in a Magnetized Medium”, *The Astrophysical Journal*, 745, 158.
60. da Silva, R. L.*, Fumagalli, M.*, & **Krumholz, M. R.** 2012, “SLUG - Stochastically Lighting Up Galaxies I: Methods and Validating Tests”, *The Astrophysical Journal*, 745, 145.
59. **Krumholz, M. R.**, Dekel, A., & McKee, C. F. 2012, “A Universal, Local Star Formation Law in Galactic Clouds, Nearby Galaxies, High-Redshift Disks, and Starbursts”, *Astrophysical Journal*, 745, 69.
58. Cunningham, A. J., McKee, C. F., Klein, R. I., **Krumholz, M. R.**, & Teyssier, R. 2012, “Radiatively Efficient Magnetized Bondi Accretion”, *The Astrophysical Journal*, 744, 185.

— 2011 —

57. **Krumholz, M. R.** 2011, “On the Origin of Stellar Masses”, *The Astrophysical Journal*, 743, 110.
56. Narayanan, D., **Krumholz, M. R.**, Ostriker, E. C., & Hernquist, L. 2011, “The CO-H₂ Conversion Factor in Disc Galaxies and Mergers”, *Monthly Notices of the Royal Astronomical Society*, 418, 664.
55. Fumagalli, M.*, da Silva, R. L.*, & **Krumholz, M. R.** 2011, “Stochastic Star Formation and a (Nearly) Uniform Stellar Initial Mass Function”, *Astrophysical Journal Letters*, 741, L26.
54. Cunningham, A. J., Klein, R. I., McKee, C. F., & **Krumholz, M. R.** 2011, “Radiation-Hydrodynamic Simulations of Massive Star Formation with Protostellar Outflows”, *The Astrophysical Journal*, 740, 107.
53. **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2011, “Radiation-Hydrodynamic Simulations of the Formation of Orion-Like Star Clusters I. Implications for the Origin of the Initial Mass Function”, *The Astrophysical Journal*, 740, 74.
52. Lin, M.-K.*, **Krumholz, M. R.**, & Kratter, K. M. 2011, “Spin Down of Protostars Through Gravitational Torques”, *Monthly Notices of the Royal Astronomical Society*, 416, 580.
51. Hosokawa, T., Offner, S. S. R., & **Krumholz, M. R.** 2011, “On the Reliability of Stellar Ages and Age Spreads Inferred from Pre-Main Sequence Evolutionary Models”, *The Astrophysical Journal*, 738, 140.
50. Goldbaum, N. J.*, **Krumholz, M. R.**, Matzner, C. D., & McKee, C. F. 2011, “The Global Evolution of Giant Molecular Clouds II: The Role of Accretion”, *The Astrophysical Journal*, 738, 101.
49. Saintonge, A., *et al.* 2011, “COLD GASS, an IRAM Legacy Survey of Molecular Gas in Massive Galaxies: II. The Non-Universality of the Molecular Gas Depletion Timescale”, *Monthly Notices of the Royal Astronomical Society*, 415, 61.
48. Saintonge, A., *et al.* 2011, “COLD GASS, an IRAM Legacy Survey of Molecular Gas in Massive Galaxies: I. Relations between H₂, H I, Stellar Content and Structural Properties”, *Monthly Notices of the Royal Astronomical Society*, 415, 32.
47. Myers, A. T., **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2011, “Metallicity and the Universality of the IMF”, *The Astrophysical Journal*, 735, 49.

46. Lopez, L. A.*, **Krumholz, M. R.**, Bolatto, A. D., Prochaska, J. X., & Ramirez-Ruiz, E. 2011, “What Drives the Expansion of Giant H II Regions?: A Study of Stellar Feedback in 30 Doradus”, *Astrophysical Journal*, 731, 91.

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45. **Krumholz, M. R.**, Leroy, A. K., & McKee, C. F. 2010, “What Phase of the Interstellar Medium Correlates with the Star Formation Rate?”, *The Astrophysical Journal*, 731, 25.
44. Jacquet, E.*, & **Krumholz, M. R.** 2011, “Radiative Rayleigh-Taylor Instabilities”, *Astrophysical Journal*, 730, 116.
43. Hennebelle, P., Commerçon, B., Joos, M., Klessen, R. S., **Krumholz, M. R.**, Tan, J. C., & Teyssier, R. 2011, “Collapse, Outflows, and Fragmentation of Massive, Turbulent, and Magnetized Prestellar Barotropic Cores”, *Astronomy & Astrophysics*, 528, 72.
42. **Krumholz, M. R.**, & Gnedin, N. Y. 2011, “A Comparison of Methods for Determining the Molecular Content of Model Galaxies”, *Astrophysical Journal*, 729, 36.
41. Fu, J., Qi, G., Kauffman, G., & **Krumholz, M. R.** 2010, “The Atomic to Molecular Transition and its Relation to the Scaling Properties of Galaxy Disks in the Local Universe”, *Monthly Notices of the Royal Astronomical Society*, 409, 515.
40. Offner, S. S. R., Kratter, K. M., Matzner, C. D., **Krumholz, M. R.**, & Klein, R. I. 2010, “The Formation of Low-Mass Binary Star Systems Via Turbulent Fragmentation”, *Astrophysical Journal*, 725, 1485.
39. **Krumholz, M. R.**, & Burkert, A. 2010, “Dynamics and Evolution of Gravitational Instability-Dominated Disks”, *Astrophysical Journal*, 724, 895.
38. Fumagalli, M.*, **Krumholz, M. R.**, & Hunt, L. K. 2010, “Testing Models for Molecular Gas Formation in Galaxies: Hydrostatic Pressure or Dust Shielding?”, *Astrophysical Journal*, 722, 919.
37. Bland-Hawthorn, J., Karlsson, T., Sharma, S., **Krumholz, M. R.**, & Silk, J. 2010, “Chemical Signatures of the First Star Clusters”, *Astrophysical Journal*, 721, 582.
36. **Krumholz, M. R.**, & Dekel, A. 2010, “Survival of Star-Forming Giant Clumps in High-Redshift Galaxies”, *Monthly Notices of the Royal Astronomical Society*, 406, 112.
35. **Krumholz, M. R.**, Cunningham, A. J., Klein, R. I., & McKee, C. F. 2010, “Radiation Feedback, Fragmentation, and the Environmental Dependence of the Initial Mass Function”, *Astrophysical Journal*, 713, 1120.
34. Bland-Hawthorn, J., **Krumholz, M. R.**, & Freeman, K. 2010, “The Long-Term Evolution of the Galactic Disk Traced by Dissolving Star Clusters”, *Astrophysical Journal*, 713, 166.
33. Fall, S. M., **Krumholz, M. R.**, & Matzner, C. D., 2010, “Stellar Feedback in Molecular Clouds and its Influence on the Mass Function of Young Star Clusters”, *Astrophysical Journal Letters*, 710, L142.
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30. Offner, S. S. R., Hansen, C., & **Krumholz, M. R.** 2009, “Stellar Kinematics of Young Clusters in Turbulent Hydrodynamic Simulations”, *Astrophysical Journal Letters*, 704, 124.
29. **Krumholz, M. R.**, & Matzner, C. D. 2009, “The Dynamics of Radiation Pressure-Dominated H II Regions”, *Astrophysical Journal*, 703, 1352.
28. Offner, S. S. R., Klein, R. I., McKee, C. F., & **Krumholz, M. R.** 2009, “The Effects of Radiative Transfer on Low-Mass Star Formation”, *Astrophysical Journal*, 703, 131.

27. **Krumholz, M. R.**, Ellison, S. L., Prochaska, J. X., & Tumlinson, J. 2009, “On the Absence of High Metallicity-High Column Density Damped Lyman Alpha Systems: Molecule Formation in a Two-Phase Interstellar Medium”, *Astrophysical Journal Letters*, 701, 12.
26. **Krumholz, M. R.**, McKee, C. F., & Tumlinson, J. 2009, “The Star Formation Law in Atomic and Molecular Gas”, *Astrophysical Journal*, 699, 850.
25. Fumagalli, M., **Krumholz, M. R.**, Prochaska, J. X., Gavazzi, G., & Boselli, A. 2009, “Detection of Molecular Hydrogen Deficiency in H I-Poor Galaxies and Implications for their Star Formation Activity”, *Astrophysical Journal*, 697, 1811.
24. Offner, S. S. R., & **Krumholz, M. R.** 2009, “The Shapes of Molecular Cloud Cores in Simulations and Observation”, *Astrophysical Journal*, 693, 914.
23. **Krumholz, M. R.**, McKee, C. F., & Tumlinson, J. 2009, “The Atomic to Molecular Transition in Galaxies. II: HI and H₂ Column Densities”, *Astrophysical Journal*, 693, 216.
22. **Krumholz, M. R.**, Klein, R. I., McKee, C. F., Offner, S. S. R., & Cunningham, A. J. 2009, “The Formation of Massive Star Systems by Accretion”, *Science*, 323, 754.

— 2008 —

21. **Krumholz, M. R.**, McKee, C. F., & Tumlinson, J. 2008, “The Atomic to Molecular Transition in Galaxies. I: An Analytic Approximation for Photodissociation Fronts in Finite Clouds”, *Astrophysical Journal*, 689, 865.
20. Offner, S. S. R., **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2008, “The Dynamics of Molecular Cloud Cores in Driven and Undriven Turbulence Environments”, *Astronomical Journal*, 136, 404.
19. **Krumholz, M. R.** & McKee, C. F. 2008, “A Minimum Column Density of 1 g cm^{-2} for Massive Star Formation”, *Nature*, 451, 1082.
18. Kratter, K. M., Matzner, C. D., & **Krumholz, M. R.** 2008, “Global Models for the Evolution of Embedded, Accreting Protostellar Disks”, *Astrophysical Journal*, 681, 375.

— 2007 —

17. **Krumholz, M. R.**, Stone, J. M & Gardiner, T. A. 2007, “Magnetohydrodynamic Evolution of H II Regions: Simulation Methodology, Convergence Tests, and Uniform Media”, *Astrophysical Journal*, 671, 518.
16. **Krumholz, M. R.**, & Thompson, T. A. 2007, “The Relationship Between Molecular Gas Tracers and Kennicutt-Schmidt Laws”, *Astrophysical Journal*, 669, 289.
15. **Krumholz, M. R.**, Klein, R. I., McKee, C. F., & Bolstad, J. 2007, “Equations and Algorithms for Mixed-Frame Flux Limited Diffusion Radiation Hydrodynamics”, *Astrophysical Journal*, 667, 626.
14. **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2007, “Molecular Line Emission from Massive Protostellar Disks: Predictions for ALMA and the EVLA”, *Astrophysical Journal*, 665, 478.
13. **Krumholz, M. R.** & Thompson, T. A. 2007, “Mass Transfer in Close, Rapidly Accreting Protobinaries: An Origin for Massive Twins?”, *Astrophysical Journal*, 661, 1034.
12. **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2007, “Radiation-Hydrodynamic Simulations of Collapse and Fragmentation in Massive Protostellar Cores”, *Astrophysical Journal*, 656, 959.
11. **Krumholz, M. R.**, & Tan, J. C. 2007, “Slow Star Formation in Dense Gas: Evidence and Implications”, *Astrophysical Journal*, 654, 304.

— 2006 —

10. **Krumholz, M. R.**, Matzner, C. D., & McKee, C. F. 2006, “The Global Evolution of Giant Molecular Clouds. I: Model Formulation and Quasi-Equilibrium Behavior”, *Astrophysical Journal*, 653, 361.
9. Tan, J. C., **Krumholz, M. R.**, & McKee, C. F. 2006, “Equilibrium Star Cluster Formation”, *Astrophysical Journal Letters*, 641, 121.
8. **Krumholz, M. R.** 2006, “Radiation Feedback and Fragmentation in Massive Protostellar Cores”, *Astrophysical Journal Letters*, 641, 45.

7. **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2006, “Bondi-Hoyle Accretion in a Turbulent Medium”, *Astrophysical Journal*, 638, 369.

— 2005 —

6. **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2005, “The Formation of Stars by Gravitational Collapse Rather Than Competitive Accretion”, *Nature*, 438, 332.
5. **Krumholz, M. R.**, & McKee, C. F. 2005, “A General Theory of Turbulence-Regulated Star Formation, From Spirals to Ultraluminous Infrared Galaxies”, *Astrophysical Journal*, 630, 250.
4. **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2005, “How Protostellar Outflows Help Massive Stars Form”, *Astrophysical Journal Letters*, 618, 33.
3. **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2005, “Bondi Accretion in the Presence of Vorticity”, *Astrophysical Journal*, 618, 757.

— 2004 and earlier —

2. **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2004, “Embedding Lagrangian Sink Particles in Eulerian Grids”, *Astrophysical Journal*, 611, 399.
1. **Krumholz, M. R.**, Thorsett, S. E., & Harrison, F. A. 1998, “Gamma-Ray Bursts and the Cosmic Star Formation Rate,” *Astrophysical Journal Letters*, 506, 81.

INVITED CONFERENCE PROCEEDINGS

9. Vink, J. S., Heger, A., **Krumholz, M. R.**, *et al.*. 2013, “Very Massive Stars (VMS) in the Local Universe”, in “Highlights of Astronomy, Volume 16, XXVIIIth IAU General Assembly”, ed. T. Montmerle, in press, arXiv:1302.2021.
8. **Krumholz, M. R.** 2011, “Star Formation in Molecular Clouds”, in “XVth Special Courses at the National Observatory of Rio de Janeiro”, eds. E. Telles, R. Dupke, & D. Lazzaro, AIP Conference Proceedings, (Melville, NY: AIP), 1386, 9.
7. **Krumholz, M. R.** 2011, “Star Formation with Adaptive Mesh Refinement Radiation Hydrodynamics” (refereed review), in “IAU Symposium 270: Computational Star Formation”, eds. B. Elmegreen, J. Girart, & V. Trimble, (Cambridge: Cambridge University Press), 270, 187.
6. **Krumholz, M. R.** 2010, “How Radiation Feedback Affects Fragmentation and the IMF”, in “Up2010: Have Observations Revealed a Variable Upper End of the Initial Mass Function?”, eds. M. Treyer, T. Wyder, D. Neill, M. Seibert, & J. Lee, ASP Conference Series, (San Francisco: ASP), 440, 91.
5. **Krumholz, M. R.** & Bonnell, I. A. 2009, “Models for the Formation of Massive Stars”, in “Structure Formation in the Universe”, in “Structure Formation in the Universe”, ed. G. Chabrier, (Cambridge: Cambridge University Press), 288.
4. **Krumholz, M. R.** 2008, “From Massive Cores to Massive Stars”, in “Pathways Through an Eclectic Universe: A Conference Celebrating John Beckman’s 40 Years of Active Research in Astrophysics”, eds. J. Knapen, T. Mahoney, & A. Vazdekis, ASP Conference Series, (San Francisco: ASP), 390, 16.
3. **Krumholz, M. R.** 2008, “Collapse, Fragmentation, and Accretion in Massive Cores”, in “Massive Star Formation: Observations Confront Theory”, eds. H. Beuther, H. Linz, and T. Henning, ASP Conference Series, (San Francisco: ASP), 387, 200.
2. **Krumholz, M. R.** 2006, “High Mass Star Formation by Gravitational Collapse of Massive Cores”, in “Proceedings of the 2006 Space Telescope Science Institute May Symposium: Massive Star Formation: From Pop III and GRBs to the Milky Way”, in press, astro-ph/0607429.
1. **Krumholz, M. R.** 2006, “Massive Star Formation: A Tale of Two Theories”, in “New Horizons in Astronomy, Proceedings of the 2005 Frank N. Bash Symposium”, eds. S. Kannappan, S. Redfield, N. Drory, J. Kessler-Silacci, & M. Landriau, ASP Conference Series, (San Francisco: ASP), 352, 31.

8. Fumagalli, M. *, & da Silva, R. *, **Krumholz, M. R.**, & Bigiel, F. 2010, "SLUG: A New Way to Stochastically Light Up Galaxies", in "Up2010: Have Observations Revealed a Variable Upper End of the Initial Mass Function?", eds. M. Treyer, T. Wyder, D. Neill, M. Seibert, & J. Lee, ASP Conference Series, (San Francisco: ASP), 440, 155.
7. Kratter, K. M., Matzner, C. D., & **Krumholz, M. R.** 2008, "Embedded, Accreting Disks in Massive Star Formation", in "Massive Star Formation: Observations Confront Theory", eds. H. Beuther, H. Linz, and T. Henning, ASP Conference Series, (San Francisco: ASP), 387, 262.
6. **Krumholz, M. R.** 2007, "Turbulence, Feedback, and Slow Star Formation", in "IAU Symposium 237: Triggered Star Formation in a Turbulent ISM", eds. B. G. Elmegreen & J. Palous, IAU Symposium Series, (Cambridge: Cambridge University Press), 237, 378.
5. **Krumholz, M. R.**, Klein, R. I., & McKee, C. F. 2005, "Radiation Pressure in Massive Star Formation", in "IAU Symposium 227: Massive Star Birth: A Crossroads of Astrophysics", eds. R. Cesaroni, E. Churchwell, M. Felli, & C. M. Walmsley, IAU Symposium Series, (Cambridge: Cambridge University Press), 227, 231.
4. **Krumholz, M. R.**, McKee, C. F., & Klein, R. I. 2004, "Embedding Lagrangian Sink Particles in Eulerian Grids", in "Star Formation in the Interstellar Medium, a workshop in honor of David Hollenbach, Chris McKee, and Frank Shu", eds. F. C. Adams, D. Johnstone, D. N. C. Lin, & E. C. Ostriker, ASP Conference Series, (San Francisco: ASP), 323, 401.
3. **Krumholz, M. R.**, Fisher, R. T., Klein, R. I., & McKee, C. F. 2003, "Realistic Initial Conditions for Star Formation Simulations", *Revista Mexicana de Astronomía y Astrofísica*, 15, 138.
2. Klein, R. I., Fisher, R. T., **Krumholz, M. R.**, & McKee, C. F. 2003, "Recent Advances in Collapse and Fragmentation of Turbulent Molecular Cloud Cores", *Revista Mexicana de Astronomía y Astrofísica*, 15, 92.
1. Shrauner, J. A., Stairs, I. H., Dewey, R. J., **Krumholz, M. R.**, Taylor, H. E., Taylor, J. H., & Thorsett, S. E. 1996, "Mark IV: A Phase Coherent Observing System for Pulsars," in "IAU Symposium 160: Pulsars: Problems and Progress", eds. S. Johnson, M. A. Walker, & M. Bailes, ASP Conference Series, (San Francisco: ASP), 23.

PUBLICATIONS IN THE POPULAR PRESS

3. **Krumholz, M. R.** Review of *Parallax*, by Alan Hirshfeld, *San Francisco Bay Guardian*, Sep. 1, 2001.
2. **Krumholz, M. R.** Review of *The Neptune File*, by Tom Standage, *San Francisco Bay Guardian*, Apr. 1, 2001.
1. **Krumholz, M. R.** "Astronomy and its Discontents" (feature article), *San Francisco Bay Guardian*, Mar. 7, 2001.

DOCTORAL AND UNDERGRADUATE THESIS SUPERVISION

PhD Students

2018 (expected)	Ayan Acharyya (jointly supervised with C. Federrath and L. Kewley)
2017	Anna Rosen (jointly supervised with E. Ramirez-Ruiz) <i>Thesis title:</i> The Destructive Birth of Massive Stars and Massive Star Clusters
2016	John Forbes <i>Thesis title:</i> Numerical Experiments in Galactic Disks: Gravitational Instability, Stochastic Accretion, and Galactic Winds
2015	Nathan Goldbaum <i>Thesis title:</i> Star Formation in Gravitationally Unstable Disk Galaxies: from Clouds to Disks
2014	Robert da Silva (jointly supervised with J. Xavier Prochaska) <i>Thesis title:</i> Stochastically Lighting Up Galaxies: Statistical Implications of Stellar Clustering
2012	Michele Fumagalli (jointly supervised with J. Xavier Prochaska) <i>Thesis title:</i> Food for Stars: The Role of Hydrogen in the Formation and Evolution of Galaxies
2011	Laura Lopez (jointly supervised with E. Ramirez-Ruiz and J. Xavier Prochaska) <i>Thesis title:</i> The Tumultuous Lives and Deaths of Stars

Undergraduate Thesis Students

2014	Theodore Rendahl <i>Thesis title:</i> Stochasticity in Nebular Emission Lines
2013	Jonathan Parra <i>Thesis title:</i> Detecting Variations of the High Mass End of the Stellar Initial Mass Function from Unresolved Star Clusters
2012	Jonathan Craig <i>Thesis title:</i> Close Encounters in the Stellar Birth Cluster
2011	Donald Dukes <i>Thesis title:</i> Nemesis
2011	Lev (Leo) Gendelev <i>Thesis title:</i> Evolution of Blister-Type H II Regions in a Magnetized Medium

EXTERNAL SUPPORT

2016 - 2018	Title: "Modeling the Distribution of Metals in the Universe" Agency: Australian Research Council Program: Discovery Projects Funding level: AU\$389,800 Role: Chief investigator
2015 - 2017	Title: "The Origin of the Stellar Mass Spectrum in Turbulence and Feedback" Agency: NASA Program: Astrophysics Theory Funding level: US\$394,043 Role: Principal investigator
2014 - 2016	Title: "Transport of Metals in Galactic Disks and Beyond" Agency: NSF Program: Astronomy & Astrophysics Research Funding level: US\$460,107 Role: Principal investigator

2014 - 2016 Title: "From the ISM to the IMF: Multi-Scale, Multi-Physics Simulations of Star Formation"
Agency: NASA
Program: Theoretical and Computational Astrophysics Networks
Funding level: US\$498,368
Role: Principal investigator

2013 - 2014 Title: "LEGUS: Legacy Extragalactic UV Survey"
Agency: NASA / STScI
Program: HST General Observer
Funding level: US\$31,691 (UCSC portion only)
Role: UCSC Principal investigator (Overall PI: Daniela Calzetti)

2013 - 2014 Title: "Simulating the Birth of Massive Star Clusters: Is Destruction Inevitable?"
Agency: NASA / STScI
Program: HST Theory
Funding level: US\$119,825
Role: Administrative PI (Science PI: Anna Rosen)

2013 - 2014 Title: "Tools for Stellar Population Synthesis in the Stochastic Regime"
Agency: NASA / STScI
Program: HST Theory
Funding level: US\$80,109
Role: Principal investigator

2012 Title: "Acquisition of a High-Performance Parallel Computing Cluster for Astrophysics"
Agency: NSF
Program: Major research infrastructure
Funding level: US\$910,000
Role: Senior associate (PI: Piero Madau)

2010 - 2015 Title: "Toward a Predictive Theory of Star Formation"
Agency: NSF
Program: CAREER award
Funding level: US\$663,347
Role: Principal investigator

2012 - 2015 Title: "The Effect of Feedback on the Formation of High Mass Stars: From High Mass Cores to Massive Star Clusters"
Agency: NASA
Program: Astrophysics Theory and Fundamental Physics
Funding level: US\$608,164 (UCSC portion US\$92,214)
Role: UCSC Principal investigator (Overall PI: Richard Klein)

2011 - 2013 Title: "Probing X-Ray Emission in H II Regions with *Chandra*"
Agency: NASA
Program: *Chandra* Telescope
Funding level: US\$60,800
Role: Administrative PI (Science PI: Laura Lopez)

2009 - 2013 Agency: Alfred P. Sloan Foundation
Program: Sloan Research Fellowship
Funding level: US\$50,000
Role: Principal investigator

- 2009 - 2012 Title: “The Formation of High Mass Stars and their Feedback Effects”
 Agency: NASA
 Program: Astrophysics Theory and Fundamental Physics
 Funding level: US\$85,979 (UCSC portion only)
 Role: Co-investigator (PI: Richard Klein)
- 2008 - 2011 Title: “The Hidden Lives of Massive Protostars”
 Agency: NSF
 Program: Astronomy & Astrophysics Research
 Funding level: US\$425,514
 Role: Principal investigator
- 2008 - 2010 Title: “Simulating Star Formation in Space and Time”
 Agency: NASA / Jet Propulsion Laboratory
 Program: Spitzer Cycle 5 Theoretical Research
 Funding level: US\$125,000
 Role: Principal investigator

PROFESSIONAL SERVICE

- 2011 - Editorial Board Member for *Scientific Reports*
- 2014 Committee of Visitors, Astronomy Division, National Science Foundation
- 2013 Director, UC High Performance AstroComputing Center (HiPACC) summer school on simulations of star and planet formation
- 2013 Invited lecturer for the 30th Jerusalem Winter School in Theoretical Physics at the Institute for Advanced Studies of Hebrew University
- 2012 Invited lecturer for the Science Journalism Boot Camp on Computational Astronomy at UC Santa Cruz (<http://hipacc.ucsc.edu/2012CAJBC.html>)
- 2010 - Scientific organizing committee service:
- *Star Formation in Different Environments*, Quy Nhon, Vietnam, July 2016
 - *Dissecting Galaxies Near and Far*, Santiago, Chile, March 2015
 - *The Origins of Stellar Clustering*, Aspen Center for Physics, Aspen, CO, May 2013
 - *IAU Symposium 292: Molecular Gas, Dust, and Star Formation in Galaxies*, Beijing, August 2012
 - *Galactic Scale Star Formation*, Heidelberg, Germany, July 2012
 - *Star Formation in Dwarf Galaxies*, Lowell Observatory, AZ, June 2012
 - *AntFest: A Conference in Honor of the 66th Birthday of Anthony Whitworth*, Crete, June 2012
 - *Origins of Stars and their Planetary Systems*, Ontario, Canada, June 2012
 - *Star Formation in Galaxies: From Recipes to Real Physics*, lead organizer, Aspen Center for Physics, Aspen, CO, August 2010
 - *International Summer Institute for Modeling in Astrophysics*, Santa Cruz, CA, July 2010
 - *The Early Phase of Star Formation*, Ringberg, Germany, June 2010
 - *IAU Symposium 270: Computational Star Formation*, Barcelona, May 2010
 - *From Stars to Galaxies*, Gainesville, FL, April 2010
- 2010 Invited lecturer for the XVth Cycle of Special Courses at the National Observatory of Brazil

COMMUNITY SERVICE

2009 - 2015

Founder, director, and instructor
UC Santa Cruz Project for Inmate Education

- PIE is a program I founded in which UC Santa Cruz faculty, staff, and students teach at the Santa Cruz main jail.
- PIE began teaching in spring / summer 2009.

2005 - 2008

Founder, director, and instructor
Princeton Prison Teaching Initiative

- PTI is a volunteer program I founded through which Princeton University faculty, staff, and students teach college classes to New Jersey prison inmates.
- PTI works in conjunction with a program run by Mercer County Community College, and its courses are accredited through MCCC.
- Hundreds of inmates at four prisons have now participated in PTI courses.
- PTI is now administered by the Pace Center for Civic Engagement at Princeton University
- For more on PTI, see www.princeton.edu/pace/home/programs/pti/

1998 - 2005

Advisory board member, director of science instruction, instructor
Prison University Project

- PUP is a non-profit (501(c)(3)) organization that provides free, accredited community college education to inmates at San Quentin State Prison, in San Quentin, CA.
- As a member of the advisory board (Aug. 2002 - Aug. 2005), I helped set policy for PUP.
- As director of math and science instruction (June 2000 - Aug. 2005), I helped decide what courses would be taught, recruited instructors, and helped write syllabuses.
- As an instructor (Sep. 1998 - Aug. 2004) I taught courses including college algebra, introduction to astronomy, introduction to physics, and topics in mathematics.
- For more on PUP, see www.prisonuniversityproject.org.