# Curriculum Vitae

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## Education

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|---|---|
| Ph.D. | 1993-1999, Physics, University of Virginia |
| B.S. | 1986-1990, Electrophysics, National Chiao-Tung University |

## Employment

| | |
|---|---|
| 2015 – | Senior Research Engineer |
| 2007 – 2015 | Associate Research Engineer |
| 2005 –2007 | Assistant Research Engineer |
| 2002 –2005 | Postdoctoral Fellow<br>Institute of Astronomy & Astrophysics, Academia Sinica |
| 2000 –2002 | Senior Electronic Engineer<br>Kai-Link Corporation |
| 1999 –2000 | Project Engineer<br>Hyton Technology Corporation |

## Published work and technical reports


[1] Chao-Te Li, et al. "Development of differential transmission for BURSTT", Proc. SPIE 14153, Radio Telescopes, Technologies, and Methods, 141532A (17 Aug 2026)

[2] Chao-Te Li et al., “Development of kinetic inductance travelling wave parametric amplifiers for quantum computing,” 2026

[3] Chao-Te Li, “Quasi optics design,” 2026

[4] S. H. Wang et al., “Design and Commissioning of the BURSTT-256 Main Antenna Array for Local Universe Fast Radio Burst Survey,” submitted to PASP

[5] C. C. Chiong et al., "300-800 MHz LNA-Integrated Log-Periodic Dipole Antenna for BURSTT," 2025 19th European Conference on Antennas and Propagation (EuCAP)

[6] V. L. Butler, et al., "TIME: the Tomographic Ionized-carbon Mapping Experiment: an update on design, characterization, and data from the 2022 commissioning observations," 2024 SPIE 13102 131022G

[7] Event Horizon Telescope Collaboration, et al., "The persistent shadow of the supermassive black hole of M 87. I. Observations, calibration, imaging, and

analysis," 2024 A&A 681 A79
[8] M.-T. Chen, et al., "The Greenland Telescope-Construction, Commissioning, and Operations in Pituffik," 2023 PASP 135 095001
[9] R.-S. Lu, et al., "A ring-like accretion structure in M87 connecting its black hole and jet," 2023 Natur 616 686
[10] M. T. Chen et al., “The Greenland Telescope-Construction, Commissioning, and Operations in Pituffik,” 2023 PASP 135 095001
[11] H. H. Lin et al., "BURSTT: Bustling Universe Radio Survey Telescope for Taiwan," 2022 PASP 134 094106
[12] Chao-Te Li et al., "wSMA superconducting diplexer development," SPIE Astronomical Telescopes + Instrumentation (2022)
[13] G. Sun et al., "Probing Cosmic Reionization and Molecular Gas Growth with TIME," ApJ, Vol. 915 (2021)
[14] Chao-Te Li et al., "Metal mesh IR filter for wSMA," SPIE Astronomical Telescopes + Instrumentation (2020)
[15] The Event Horizon Telescope Collaboration, "First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole," 2019 ApJL 875 L1
[16] The Event Horizon Telescope Collaboration, "First M87 Event Horizon Telescope Results. II. Array and Instrumentation," 2019 ApJL 875 L2
[17] Chao-Te Li et al., "TIME millimeter wave grating spectrometer," SPIE Astronomical Telescopes + Instrumentation (2018)
[18] Chih-Chiang Han et al., "The first-light receivers for the Greenland Telescope," SPIE Astronomical Telescopes + Instrumentation (2018)
[19] Kai-Yang Lin et al., "AMiBA: Cluster Sunyaev-Zel'dovich Effect Observations with the Expanded 13-Element Array," ApJ, Vol. 830 (2016)
[20] Chao-Te Li et al., "Digital sideband separating down-conversion for Yuan-Tseh Lee Array," SPIE Astronomical Telescopes + Instrumentation (2016)
[21] Jonathon Hunacek et al., "Detector Modules and Spectrometers for the TIME-Pilot [CII] Intensity Mapping Experiment," SPIE Astronomical Telescopes + Instrumentation (2016)
[22] Chao-Te Li et al., "Development of a millimeter wave grating spectrometer for TIME Pilot," The 27th International Symposium on Space Terahertz Technology (2016)
[23] Kuan-Yu Liu et al., "The Performance of an Integrated Dual Polarization SIS Mixer at 350 GHz," The 26th International Symposium on Space Terahertz Technology (2015)

[24] A. T. Grites et al., "The TIME-Pilot Intensity Mapping Experiment," Proceedings of SPIE Astronomical Telescopes and Instrumentation (2014)

[25] Homin Jiang et al., "A 5 Giga samples per second 8-Bit Analog to Digital Printed Circuit Board for Radio Astronomy," PASP, vol. 126, no. 942, Aug., pp. 761-768, 2014

[26] Kuan-Yu Liu et al., "Development of a Dual Polarization SIS Mixer with a Planar Orthomode Transducer at 350 GHz," IEEE Trans. Applied Superconductivity, Vol. 23, Issue 3, 2013

[27] Yun-Chih Chou et al., "Multi-Pixel Optics Design for the Submillimeter Array," Proceedings of the 24th International Symposium on Space Terahertz Technology (2013)

[28] Chao-Te Li et al., "Development of 460 GHz and Dual Polarization SIS Mixers for the Submillimeter Array," IEEE Trans. Applied Superconductivity, Vol. 21, Issue 3, pp. 654-659, 2011

[29] Chao-Te Li et al., "AMiBA Wideband Analog Correlator," ApJ, Vol. 716, Issue 1, pp. 746-757 (2010)

[30] Ming-Tang Chen et al., "AMiBA: Broadband Heterodyne Cosmic Microwave Background Interferometry," ApJ, Vol. 694, Issue 2, pp. 1664-1669 (2009)

[31] Kai-Yang Lin et al., "AMiBA: System Performance," ApJ, Vol. 694, Issue 2, pp. 1629-1636 (2009)

[32] Paul T. P. Ho et al., "The Yuan-Tseh Lee Array for Microwave Background Anisotropy," ApJ, Vol. 694, Issue 2, pp. 1610-1618 (2009)

[33] Chao-Te Li et al., "Development of SIS Mixers for SMA 400-520 GHz Band," Proceedings of the 20th International Symposium on Space Terahertz Technology (2009)

[34] Chao-Te Li et al., "Design of SIS Mixers for SMA 400 - 520 GHz Band," Proceedings of the Global Symposium on Millimeter Waves, 2008

[35] Chao-Te Li et al., "A wideband analog correlator system for AMiBA," Proceedings of SPIE Astronomical Telescopes and Instrumentation (2004)

[36] C.-T. Li et al., "Gain-Bandwidth and Noise Characteristics of Millimeter-wave YBa2Cu3O7 Hot-electron Bolometer Mixers," Appl. Phys. Lett. 73, 1727 (1998)

[37] Mark Lee et al., "Nonlinear THz Mixing in YBaCuO Thin Film Hot Electron Bolometer," Proceedings of SPIE Superconducting and Related Oxides: Physics and Nanoengineering III (1998)

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Proceedings of the 9th International Symposium on Space Terahertz Technology (1998)

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[52] G. Sun et al., "Probing Cosmic Reionization and Molecular Gas Growth with TIME," ApJ, Vol. 915 (2021)

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