

Nima Chartab

Professional Appointments

- 2026–Present **California Institute of Technology, IPAC, Pasadena, CA, USA**, *Staff Scientist*.
- 2024–2026 **California Institute of Technology, IPAC, Pasadena, CA, USA**, *Astronomical Data Scientist*.
- 2022–2024 **Carnegie Institution for Science, Observatories, Pasadena, CA, USA**, *Postdoctoral Fellow, Extragalactic Astrophysics*.
Supervisor: Dr. Andrew Newman
- 2021–2022 **University of California, Irvine, CA, USA**, *Postdoctoral Scholar, Extragalactic Astrophysics*.
Supervisor: Prof. Asantha Cooray

Education

- 2016–2021 **University of California, Riverside, CA, USA**, *Ph.D., Physics – Observational Astronomy*.
Ph.D. Thesis: Evolution of Galaxies in Different Environments Over Cosmic Time
Advisor: Prof. Bahram Mobasher
- 2014–2016 **Sharif University of Technology, Tehran, Iran**, *M.Sc., Physics*.
M.Sc. Thesis: The Effective Field Theory of Cosmological Large Scale Structures
- 2009–2014 **Sharif University of Technology, Tehran, Iran**, *B.Sc., Electrical Engineering – Electronics*.
B.Sc. Thesis: Design and Implementation of a SIM Card Programmable Digital Board Frame

Research Interests

Extragalactic Astrophysics
Galaxy Formation and Evolution
Large-Scale Structures
Machine Learning Applications in Astronomy

Honors and Awards

- 2021 **Robert T. Poe Memorial Scholarship Award – Presented for Outstanding Ph.D. Graduate**, *Physics Dept. of University of California, Riverside, CA, USA*.
- 2021 **Outstanding Teaching Assistant Award**, *University of California, Riverside, CA, USA*.
- 2016–2017 **Dean’s Distinguished Fellowship**, *University of California, Riverside, CA, USA*.
- Oct 2009 **Gold Medal Winner**, *3rd International Olympiad on Astronomy and Astrophysics*, Tehran, Iran.
- 2009–2016 **Fellowship**, *as a member of National Iranian Elites Foundation*, Tehran, Iran.
- Sep 2008 **Gold Medal Winner**, *4th National Astronomy and Astrophysics Olympiad*, Tehran, Iran.

Selected Proposals and Grants

- 2026 **NASA/JPL Keck Research Grant**, *PI*, “Tracing Quiescent Populations in the UV-Dim Antu Protocluster”, ~ \$15K.

- 2024 **HST Cycle 32, ID. 17802**, *Co-I*, “CLUTCH: The COSMOS Legacy UV-Optical Treasury Campaign with Hubble”.
- 2023 **NASA/JPL Keck Research Grant**, *PI*, “Uncovering UV-dim Protoclusters Identified in the IGM Maps at Cosmic Noon”, $\sim \$15K$.
- 2023 **NSF PAARE Program**, *Co-I*, “California-Hawaii Astrophysics Mentoring Partnership (CHAMP)”, $\sim \$425K$.
- 2022 **NSF AAG**, *Co-I*, “Collaborative Research: Exploring Early Galaxy Formation and the Epoch of Reionization with the Hawaii-Two-0 (H20) Survey”, $\sim \$427K$.
- 2022 **6 Nights of Magellan/FIRE**, *PI*, “Near-IR Spectroscopy of Herschel-ALMA Selected Galaxies at Cosmic Noon”.
- 2022 **HST Cycle 30, ID. 17058**, *Co-I*, “Augmenting the SFR- M_* Plane with Galaxy Star Formation History Trajectories”.
- 2021 **JWST Proposal. Cycle 1, ID. 2659**, *Co-I*, “Beasts in the Bubbles: Characterizing ultra-luminous galaxies at Cosmic Dawn”.
- 2021 **20-ADAP20-0311**, *Co-I*, “Deep Neural Network Generated Imaging and Spectroscopic Data for Euclid, SPHEREx and Roman Space Telescopes”, $\sim \$200K$.
- 2020 **9 Nights of Keck II/DEIMOS**, *Co-I*, “High Redshift Proto-clusters in the H20 Deep Fields”.

Observing Experience

- 2022–Present 12 Nights Observing Experience with **IMACS** on Magellan Baade Telescope
- 2022–2023 6 Nights Observing Experience with **FIRE** on Magellan Baade Telescope
- 2020–Present 25 Nights Observing Experience with **DEIMOS** on Keck II Telescope
- 2019 3 Nights Observing Experience with **Hyper Suprime-Cam** on Subaru Telescope
- 2017–Present 15 Nights Observing Experience with **MOSFIRE** on Keck I Telescope

Student Mentoring

Graduate (Co-Advisor):

- 2021–2025 **Sina Taamoli**, *University of California, Riverside, CA, USA*.
The Evolving Role of the Cosmic Web in Galaxy Evolution Across Cosmic Time
- 2021–2024 **Zahra Sattari**, *University of California, Riverside, CA, USA*.
Physical Properties of Galaxies at Small and Large Scales
- 2021–2022 **Bin Liu**, *University of California, Irvine, CA, USA*.
Massive molecular–gas reservoir in a luminous submillimeter galaxy at cosmic noon.

Undergraduate:

- 2024–Present **Ryan Tsiao**, *University of California, Riverside, CA, USA*.
Spectroscopic confirmation and gas–phase metallicity analysis of a protocluster at $z \sim 2.46$.
- 2023–2024 **Sofia Franck**, *University of California, Santa Cruz, CA, USA*.
Quiescent fraction versus environment at $z \sim 2.5$ using Lyman- α tomography.
- 2021–2022 **Preston Zilliot**, *University of California, Irvine, CA, USA*.
Dust–obscuration bias in ULIRG gas–phase metallicity measurements.
- 2021–2022 **Jonathan Lopez**, *University of California, Irvine, CA, USA*.
Dust–obscuration bias in ULIRG gas–phase metallicity measurements.
- 2021–2022 **Brandan Ian Buschmann**, *University of California, Irvine, CA, USA*.
Machine–learning identification of QSOs in SPHEREx data.

- 2021–2022 **Thomas Li**, *University of California, Irvine, CA, USA*.
Strong-lensing system discovery in Euclid imaging with deep-learning models.
- 2021–2022 **Arin Reza**, *University of California, Irvine, CA, USA*.
Molecular-gas reservoirs in luminous submillimeter galaxies at $z \sim 2$.
- 2021–2022 **Hunter Connors**, *University of California, Irvine, CA, USA*.
Molecular-gas reservoirs in luminous submillimeter galaxies at $z \sim 2$.
- 2021–2022 **Thomas Scott**, *University of California, Irvine, CA, USA*.
Predicting far-IR photometry from multi-band inputs with supervised machine learning.

Teaching Experience

- 2016–2021 **Teaching Assistant**, *University of California, Riverside, CA, USA*.
 - Courses: Introduction to Applied Data Science, General Physics, General Physics Laboratory, Energy and The Environment, The Origins, and History of The Universe.
- 2019–Present **Coach and Test Writer**, *National Astronomy and Astrophysics Olympiad*, [USA Astronomy and Astrophysics Organization](#), USA.
 - Courses: Cosmology, Fundamentals of Spherical Astronomy.
- 2014–2016 **Teaching Assistant**, *Sharif University of Technology*, Tehran, Iran.
 - Courses: Cosmology, Electromagnetism, and Special Relativity.
- 2009–2016 **Instructor and Test Writer**, *National Astronomy and Astrophysics Olympiad*, Young Scholars Club, Tehran, Iran.
 - Courses: Introduction to Thermodynamics, Astronomical Data Analysis, Methods of Observational Astronomy, Astrophysics: Stellar Structure and Their Evolution, Introduction to Astrophysics, Data Reduction and Error Analysis, and Introduction to Electromagnetism

Academic Activities and Services

- 2026 **NASA Proposal Review Panel**.
- 2020–Present **Referee for AAS Journals (ApJ, ApJ Letters, AJ) and A&A**.
- 2024 **IPAC Visiting Graduate Student Fellowship Selection Committee**.
- 2023 **NASA Proposal Review Panel**.
- 2023 **Time Allocation Committee Service for Subaru**.
- 2022 **Organizer of Carnegie Journal Clubs (Tea Sessions)**.
- 2021–Present **Member of The Euclid team**.
- 2019–Present **Member of The Hawaii Two-0 (H20) Collaboration**.
- 2019–Present **Member of USA Astronomy and Astrophysics Organization**.
 - Service: Test Writer and Coach for the USA Astronomy and Astrophysics Olympiad Team
- Apr 2018 **Conference Local Organizer Committee**, *The Art of Measuring Physical Parameters in Galaxies*, University of California, Riverside, CA, USA.
- 2018–Present **Member of The COSMOS Collaboration**.
- 2016–Present **Member of The CANDELS Collaboration**.
- 2018–Present **Member of American Astronomical Society (AAS)**.
- 2012–2016 **Astronomy & Astrophysics Olympiad Committee Member**, *Young Scholars Club*, Tehran, Iran.

Outreach

- 2025 **Public Lecture**, “Astronomy in the Age of Artificial Intelligence”, Socrates Think Tank, Online.
Audience:100+
- 2024 **Radio Interview**, “Why We Study Distant Galaxies”, KIRN 670 AM, Los Angeles.

- 2023 **Research Talk**, “Galaxies, Near and Far”, *CASSI Program*.
- 2022–2023 **Instructor**, *Two-day Python Workshop*, *CASSI Program*.
- 2019 **Teaching Assistant**, *The Origins Course for High School Students*, *FIELDS Program*.
- 2019 **Annual Meeting Organizer for the FIELDS Fellows**.

Talks

- Sep 2025 **GalFRESCA 2025**, *San Diego, CA, USA*.
“The Lyman-alpha Tomography IMACS Survey: Galaxies in Diverse Environments at $z \sim 2.5$ ”
- Aug 2025 **Greater IPAC Science Symposium**, *IPAC/Caltech, CA, USA*.
“Sampling the Universe Through Filters: Challenges in Studying Galaxy Environments with Spectroscopic Surveys”
- Jan 2025 **American Astronomical Society 245th Meeting**, *National Harbor, MD, USA*.
“The Lyman-alpha Tomography IMACS Survey: Galaxies in Diverse Environments at $z \sim 2.5$ ”
- Aug 2024 **Greater IPAC Science Symposium**, *IPAC/Caltech, CA, USA*.
“The Lyman-alpha Tomography IMACS Survey: Galaxies in Diverse Environments at $z \sim 2.5$ ”
- Jan 2024 **American Astronomical Society 243rd Meeting**, *New Orleans Ernest N. Morial Convention Center, LA, USA*.
“LATIS: The Stellar Mass-Metallicity Relation of Star-forming Galaxies at $z \sim 2.5$ ”
- Jan 2024 **American Astronomical Society 243rd Meeting**, *New Orleans Ernest N. Morial Convention Center, LA, USA (Invited)*.
“Unraveling Cosmic Metallicity: The FIRSST View on Protoclusters at Cosmic Noon”
- May 2023 **COSMOS Team Meeting**, *Rochester Institute of Technology, NY, USA*.
“LATIS: The Stellar Mass-Metallicity Relation of Star-forming Galaxies at $z \sim 2.5$ ”
- Jan 2023 **American Astronomical Society 241st Meeting**, *Washington State Convention Center, WA, USA*.
“A Machine-learning Approach to Predict Missing Flux Densities in Multiband Galaxy Surveys”
- June 2022 **Seminar Talk**, *Carnegie Institution for Science, CA, USA (Invited)*.
“Evolution of Galaxies in Different Environments Over Cosmic Time”
- Apr 2022 **SOFIA Tele-Talk**, (Invited).
“Gas Phase Metallicities in Local ULIRGs”
- Aug 2020 **CANDELS SED Fitting Working Group Meeting**, *Virtual (Invited)*.
“The Environmental Imprint on the Gas-phase Metallicity of Galaxies at $1.37 \leq z \leq 2.61$ ”
- Nov 2019 **The Art of Measuring Galaxy Physical Properties**, *National Institute of Astrophysics (INAF-IASF), Milano, Italy*.
“Large-scale Structures in the CANDELS Fields: The Role of the Environment in Star Formation Activity”
- May 2019 **COSMOS Team Meeting**, *Computational Center for Astrophysics at the Flatiron Institute, NY, USA*.
“Large-scale Structures in the CANDELS Fields: The Role of the Environment in Star Formation Activity”
- Jan 2019 **American Astronomical Society 233rd Meeting**, *Washington State Convention Center, WA, USA*.
“The Role of Environment in Star Formation Activity out to $z \sim 5$ ”
- Oct 2018 **The Universe by the Light of CANDELS: Past and Future**, *University of Massachusetts Amherst, MA, USA*.
“The Role of Environment in Star Formation Activity out to $z \sim 5$ ”

- Jul 2018 **The Near, The Far, and the In-Between: Synergy between Low and High Redshift Galaxy Evolution Studies in the Era of JWST and Euclid**, *European Space Research and Technology Centre (ESTEC)*, Noordwijk, The Netherlands.
“Evolution of Galaxies in Different Environments Over Cosmic Time”
- Apr 2018 **The Art of Measuring Physical Parameters in Galaxies**, *University of California, Riverside*, CA, USA.
“Evolution of Galaxies in Different Environments Over Cosmic Time”

Skills and Abilities

Language Proficiency	English (Fluent), Azerbaijani (Native), Persian (Native), Turkish (Fluent)
Programming Languages	Python (+PyTorch, TensorFlow, and Scikit-learn), C/C++, R, MATLAB, PyRAF, HTML
Operating Systems	MacOS, Linux, Windows
Software/Tools	Git, \LaTeX , Mathematica, MOSFIRE Data Reduction Pipeline (DRP), DEEP2 DEIMOS Data Reduction Pipeline, Pypelt, SED Fitting Codes (LePhare, Bagpipes, EAZY, CIGALE), TOPCAT, ds9, ginga
Hard Skills	Machine Learning and Deep Learning (Clustering, Classification, Regression, Decision Trees, Support Vector Machines, Neural Networks, NLP and LLMs), Bayesian Statistics

Refereed Publications

Lead Author Publications:

- Nov 2025 **Chartab N.**, Newman A. B., et al. **2025, ApJ, 994, 106**, “[LATIS: Galaxy-Environment Relations at Cosmic Noon and the Role of Sample Selection](#)”
- Jan 2024 **Chartab N.**, Newman A. B., et al. **2024, ApJ, 960, 73**, “[LATIS: The Stellar Mass-Metallicity Relation of Star-forming Galaxies at \$z \sim 2.5\$](#) ”
- Jan 2023 **Chartab N.**, Mobasher B., et al. **2023, ApJ, 942, 91**, “[A Machine-learning Approach to Predict Missing Flux Densities in Multiband Galaxy Surveys](#)”
- May 2022 **Chartab N.**, Cooray A., et al. **2022, Nature Astronomy, 6, 844**, “[Low gas-phase metallicities of ultraluminous infrared galaxies are a result of dust obscuration](#)”
- Feb 2021 **Chartab N.**, Mobasher B., et al. **2021, ApJ, 908, 120**, “[The MOSDEF Survey: Environmental dependence of the gas-phase metallicity of galaxies at \$1.4 \leq z \leq 2.6\$](#) ”
- Feb 2020 **Chartab N.**, Mobasher B., et al. **2020, ApJ, 890, 7**, “[Large-scale Structures in the CANDELS Fields: The Role of the Environment in Star Formation Activity](#)”

Student-Led or Major Contributor Publications:

- Nov 2025 Newman A. B., Rudie G. C., Blanc G. A., Kelson D. D., **Chartab N.**, et al. **2025, ApJS, 281, 32**, “[LATIS Data Release: \$\sim 4200\$ Spectra of \$z \sim 2 - 3\$ Galaxies, Redshifts, and IGM Tomography Maps](#)”
- Oct 2025 Asadi V., **Chartab N.**, et al. **2025, ApJ, 993, 123**, “[Machine Learning Classification of COSMOS2020 Galaxies: Quiescent vs. Star-Forming](#)”
- Jul 2025 Newman A. B., **Chartab N.**, et al. **2025, ApJ, 988, 48**, “[LATIS: Comparing Galaxy and IGM Tomography Maps as Tracers of Large-scale Structure and Protoclusters at \$z \sim 2.5\$](#) ”
- Jul 2025 Newman A. B., Qezlou, M., Rudie, G. C., **Chartab N.**, et al. **2025, ApJ, 988, 47**, “[LATIS: A Sample of IGM-selected Protoclusters and Protogroups at \$z \sim 2.5\$](#) ”

- Dec 2024 Taamoli S., Nezhad N., Mobasher B., Manesh F., **Chartab N.**, et al. **2024, ApJ, 977, 263**, “COSMOS2020: Disentangling the Role of Mass and Environment in Star Formation Activity of Galaxies at $0.4 < z < 4$ ”
- Oct 2024 Darvish B., **Chartab N.**, et al. **2024, ApJ, Submitted**, “Dynamics of Star-forming Galaxies in a Massive Structure at $\{z \sim\} 2.2$: Evidence for Galaxy Harassment in high- z Environments”
- May 2024 Taamoli S., Mobasher B., **Chartab N.**, et al. **2024, ApJ, 966, 18**, “Large-scale Structures in COSMOS2020: Evolution of Star Formation Activity in Different Environments at $0.4 < z < 4$ ”
- Jan 2024 Newman A. B., Qezlou M., **Chartab N.**, et al. **2024, ApJ, 961, 27**, “LATIS: Constraints on the Galaxy-Halo Connection at $z \sim 2.5$ from Galaxy-Galaxy and Galaxy- $\text{Ly}\alpha$ Clustering”
- Jul 2023 Sattari Z. , Mobasher B., **Chartab N.**, et al. **2023, ApJ, 951, 147**, “Fraction of Clumpy Star-forming Galaxies at $0.5 \leq z \leq 3$ in UVCANDELS: Dependence on Stellar Mass and Environment”
- Feb 2023 Pacifici C., Iyer K. G., Mobasher B., da Cunha E., Acquaviva V., Burgarella D., Calistro Rivera G., Carnall A. C., Chang Y., **Chartab N.**, et. al. **2023, ApJ, 944, 141**, “The Art of Measuring Physical Parameters in Galaxies: A Critical Assessment of Spectral Energy Distribution Fitting Techniques”
- Apr 2022 Liu B., **Chartab N.**, et al. **2022, ApJ, 929, 41**, “Massive molecular gas reservoir in a luminous sub-millimeter galaxy during cosmic noon”
- Mar 2021 Sattari Z. , Mobasher B., **Chartab N.**, et al. **2021, ApJ, 910, 57**, “Evidence for gas-phase metal deficiency in massive protocluster galaxies at $z \sim 2.2$ ”
- Feb 2021 Simet M., **Chartab N.**, et. al. **2021, ApJ, 908, 47**, “Comparison of Observed Galaxy Properties with Semianalytic Model Predictions using Machine Learning”
- Nov 2020 Shivaiei I., Darvish B., Sattari Z., **Chartab N.**, et. al. **2020, ApJ, 903, 28**, “Dependence of the $\text{IRX-}\beta$ Dust Attenuation Relation on Metallicity and Environment”
- Jul 2020 Shahidi A., Mobasher B., Nayyeri H., Hemmati S., Wiklind T., **Chartab N.**, et. al. **2020, ApJ, 897, 44**, “Selection of Massive Evolved Galaxies at $3 \leq z \leq 4.5$ in the CANDELS Fields”
- Mar 2020 Darvish B., Scoville N., Martin C., Sobral D., Mobasher B., Rettura A., Matthee J., Capak P., **Chartab N.**, et. al. **2020, ApJ, 892, 8**, “Spectroscopic Confirmation of a Coma Cluster Progenitor at $z \sim 2.2$ ”

Collaborative Contributions:

- May 2026 Hatamnia H., Mobasher B., Taamoli S., including **Chartab N.**, et al., **2026, ApJ, 1002, 192**, “Large-Scale Structure in COSMOS-Web: Tracing Galaxy Evolution in the Cosmic Web up to $z \sim 7$ ”
- Mar 2026 Sattari Z., Kelson D. D., Mobasher B., **Chartab N.**, et al. **2026, ApJ, 1000, 225**, “Optical Spectroscopy of Dwarf Galaxies at $z \sim 0.15$ in the COSMOS Field: Star Formation and Dust Properties”
- Mar 2026 Pearson J., Dickinson H., Serjeant S., including **Chartab N.**, **2026, MNRAS, 546, 23**, “Galaxy Zoo: Cosmic Dawn – morphological classifications for over 41,000 galaxies in the Euclid Deep Field North from the Hawaii Two-0 Cosmic Dawn survey”
- Feb 2026 Sutanto R. A., Morishita T., Kodama T., including **Chartab N.**, et al., **2026, ApJ, Submitted**, “BEACON: JWST NIRCcam Pure-parallel Imaging Survey. IV. A Systematic Search for Galaxy Overdensities and Evidence for Gas Accretion Mode Transition”
- Dec 2025 Khostovan A. A., Kartaltepe J. S., Salvato M., including **Chartab N.**, **2025, ApJS, 282, 6**, “COSMOS Spectroscopic Redshift Compilation (First Data Release): 488,000 Redshifts Encompassing Two Decades of Spectroscopy”

- Nov 2025 Hatamnia H., Mobasher B., Taamoli S., including **Chartab N.**, et al., 2025, **ApJ**, Submitted, “Large-Scale Structure in COSMOS-Web: Tracing Galaxy Evolution in the Cosmic Web up to $z \sim 7$ ”
- Aug 2025 de la Vega A., Mobasher B., Sattari Z., **Chartab N.**, et. al. 2025, **ApJ**, in press., “The Fraction of Clumpy Galaxies in JWST Surveys over $2 < z < 12$ ”
- Aug 2025 Asadi V., Zonoozi A., Haghi H., including **Chartab N.**, 2025, **ApJ**, 989, 65, “Leveraging Machine Learning for Accurate and Fast Stellar Mass Estimation of Galaxies”
- Jul 2025 Moretti L., Belli S., Rudie G., including **Chartab N.**, 2025, **A&A**, Submitted, “Empirical Calibration of Na I D and Other Absorption Lines as Tracers of High-Redshift Neutral Outflows”
- Jun 2025 Gozaliasl G., Yang L., Kartaltepe J., including **Chartab N.**, 2025, **A&A**, 703, 129, “COSMOS Web: Morphological quenching and size-mass evolution of brightest group galaxies from $z = 3.7$ ”
- Jun 2025 Franco M., Casey C. M., Koekemoer A. M., including **Chartab N.**, 2025, **ApJ**, Submitted, “COSMOS-Web: Comprehensive Data Reduction for Wide-Area JWST NIRC*am* Imaging”
- Jun 2025 Shuntov M., Akins H. B., Paquereau L., including **Chartab N.**, 2025, **A&A**, 704, 339, “COSMOS2025: The COSMOS-Web galaxy catalog of photometry, morphology, redshifts, and physical parameters from JWST, HST, and ground-based imaging”
- May 2025 Euclid Collaboration, including **Chartab N.**, 2025, **A&A**, 697, A1, “Euclid: I. Overview of the Euclid mission”
- Apr 2025 Euclid Collaboration, including **Chartab N.**, 2025, **A&A**, Submitted, “Euclid preparation: TBD. Cosmic Dawn Survey: evolution of the galaxy stellar mass function across $0.2 < z < 6.5$ measured over 10 square degrees”
- Apr 2025 Morishita T., Liu Z., Stiavelli M., including **Chartab N.**, 2025, **ApJ**, 982, 153, “Accelerated Emergence of Evolved Galaxies in Early Overdensities at $z \sim 5.7$ ”
- Mar 2025 Euclid Collaboration, including **Chartab N.**, 2025, **A&A**, 695, A259, “Euclid preparation: LXIV. The Cosmic Dawn Survey (DAWN) of the Euclid Deep and Auxiliary Fields”
- Mar 2025 Euclid Collaboration, including **Chartab N.**, 2025, **A&A**, 695, A229, “Euclid preparation: LXI. Cosmic Dawn Survey: ‘Pre-launch’ multiwavelength catalogues for Euclid Deep Field North and Euclid Deep Field Fornax”
- Feb 2025 Faisst A. L., Yang L., Brinch M., **Chartab N.**, et al. 2024, **ApJ**, 980, 204, “COSMOS-Web: The Role of Galaxy Interactions and Disk Instabilities in Producing Starbursts at $z < 4$ ”
- Feb 2025 Wang X., Teplitz H. I., Smith B. M., including **Chartab N.**, 2025, **ApJ**, 980, 74, “The Lyman Continuum Escape Fraction of Star-forming Galaxies at $2.4 \lesssim z \lesssim 3.7$ from UVCANDELS”
- Feb 2025 McKinney J., Casey C. M., Long A. S., including **Chartab N.**, 2025, **ApJ**, 979, 229, “SCUBADive I: JWST+ALMA Analysis of 289 sub-millimeter galaxies in COSMOS-Web”
- Jan 2025 de la Vega A., Babcock M. D., Mobasher B., including **Chartab N.**, 2025, **ApJ**, Submitted, “Searching for Quiescent Galaxies over $3 < z < 6$ in JWST Surveys Using Manifold Learning”
- Dec 2024 Tanaka T. S., Silverman J. D., Nakazato Y., including **Chartab N.**, 2024, **PASJ**, 76, 1323, “Crimson Behemoth: a Massive Clumpy Structure Hosting a Dusty AGN at $z = 4.91$ ”
- Dec 2024 Sanjaripour S., Hemmati S., Mobasher B., Canalizo G., Barish B. C., Shivaie I., Coil A. L., **Chartab N.**, et al. 2024, **ApJ**, 977, 202, “The Application of Manifold Learning to a Selection of Different Galaxy Populations and Scaling Relation Analysis”
- Nov 2024 Mehta V., Rafelski M., Sunnquist B., including **Chartab N.**, 2024, **ApJS**, 275, 17, “UVCANDELS: Catalogs of Photometric Redshifts and Galaxy Physical Properties”
- Sep 2024 Sun L., Wang X., Teplitz H. I., including **Chartab N.**, 2024, **ApJ**, 972, 8, “The Ultraviolet Luminosity Function at $0.6 < z < 1$ from UVCANDELS”

- Aug 2024 Nedkova K. V., Rafelski M., Teplitz H. I., including **Chartab N., 2024, ApJ, 970, 188**, “UVCANDELS: The Role of Dust on the Stellar Mass–Size Relation of Disk Galaxies at $0.5 \leq z \leq 3.0$ ”
- Jun 2024 Bakx T. J. L. C., Berta S., Dannerbauer H., including **Chartab N., 2024, MNRAS, 530, 4578**, “A dusty protocluster surrounding the binary galaxy HerBS-70 at $z = 2.3$ ”
- Jan 2024 Wang X., Teplitz H. I., Sun L., including **Chartab N., 2024, Research Notes, 8, 26**, “Ultraviolet and Blue Optical Imaging of UVCANDELS”
- Jan 2024 Brinch M., Greve T. R., Sanders D. B., McPartland C. J. R., **Chartab N.**, et al. **2024, MNRAS, 527, 6591**, “DEIMOS spectroscopy of $z = 6$ protocluster candidate in COSMOS - a massive protocluster embedded in a large-scale structure?”
- Nov 2023 Rezaee S., Reddy N., Topping M., including **Chartab N. 2023, MNRAS, 526, 1512**, “Exploring the correlation between $H\alpha$ -to-UV ratio and burstiness for typical star-forming galaxies at $z \sim 2$ ”
- Nov 2023 Weaver J. R., Zalesky L., Kokorev V., McPartland C. J. R., **Chartab N.**, et. al. **2023, ApJS, 269, 20**, “The Farmer: A reproducible profile-fitting photometry package for deep galaxy surveys”
- Oct 2023 Martin A. , Guo Y., Wang X., including **Chartab N.**, et al. **2023, ApJ, 955, 106**, “UV-bright Star-forming Clumps and Their Host Galaxies in UVCANDELS at $0.5 \leq z \leq 1$ ”
- Oct 2023 Berta S., Stanley F., Ismail D., including **Chartab N., 2023, A&A, 678, A28**, “z-GAL: A NOEMA spectroscopic redshift survey of bright Herschel galaxies. III. Physical properties”
- Oct 2023 Ismail D., Beelen A., Buat V., including **Chartab N., 2023, A&A, 678, A27**, “z-GAL: A NOEMA spectroscopic redshift survey of bright Herschel galaxies. II. Dust properties”
- Oct 2023 Cox P., Neri R., Berta S., including **Chartab N., 2023, A&A, 678, A26**, “z-GAL: A NOEMA spectroscopic redshift survey of bright Herschel galaxies. I. Overview”
- Sep 2023 Casey C. M., Kartaltepe J. S., Drakos N. E., including **Chartab N., 2023, ApJ, 954, 31**, “COSMOS-Web: An Overview of the JWST Cosmic Origins Survey”
- Sep 2023 Weaver J. R., Davidzon I., Toft S., including **Chartab N.**, et al. **2023, A&A, 677, A184**, “COSMOS2020: The galaxy stellar mass function. The assembly and star formation cessation of galaxies at $0.2 < z \leq 7.5$ ”
- Aug 2023 Chávez Ortiz Ó, A., Finkelstein S. L., Davis D., including **Chartab N., 2023, ApJ, 952, 110**, “Introducing the Texas Euclid Survey for $Ly\alpha$ (TESLA) Survey: Initial Study Correlating Galaxy Properties to $Ly\alpha$ Emission”
- Apr 2023 Zabelle B., Scarlata C., Mehta V., including **Chartab N.**, et. al. **2023, ApJ, 947, 17**, “Investigating the Dominant Environmental Quenching Process in UVCANDELS/COSMOS Groups”
- Feb 2023 Scoville N., Faisst A., Weaver J., including **Chartab N.**, et. al. **2023, ApJ, 943, 82**, “Cosmic Evolution of Gas and Star Formation”
- Jan 2023 Kodra D., Andrews B., Newman J., including **Chartab N.**, et. al. **2023, ApJ, 942, 36**, “Optimized Photometric Redshifts for the Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey (CANDELS)”
- Nov 2022 Shah E., Kartaltepe J., Magagnoli C., including **Chartab N.**, et. al. **2022, ApJ, 940, 4**, “Investigating the Effect of Galaxy Interactions on Star Formation at $0.5 < z < 3.0$ ”
- Dec 2020 Shah E., Kartaltepe J., Magagnoli C., including **Chartab N.**, et. al. **2020, ApJ, 904, 107**, “Investigating the Effect of Galaxy Interactions on the Enhancement of Active Galactic Nuclei at $0.5 < z < 3.0$ ”
- Jun 2020 Hemmati S., Mobasher B., Nayyeri H., Shahidi A., Capak P., Darvish B., **Chartab N.**, et. al. **2020, ApJL, 896, 17**, “Bridging between the Integrated and Resolved Main Sequence of Star Formation”

- Dec 2019 Jafariyazani M., Mobasher B., Hemmati S., Fetherolf T., Khostovan A. A., **Chartab N.**, 2019, **ApJ**, **887**, **204**, “[Spatially Resolved Properties of Galaxies from CANDELS+MUSE: Radial Extinction Profile and Insights on Quenching](#)”
- Oct 2019 Khostovan A. A., Sobral D., Mobasher B., Matthee J., Cochran, R. K., **Chartab N.**, et. al. 2019, **MNRAS**, **489**, **555**, “[The clustering of typical Ly \$\alpha\$ emitters from \$z \sim 2.5 - 6\$: host halo masses depend on Ly \$\alpha\$ and UV luminosities](#)”