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Dear Applicant,

Thank you for your interest in the Graduate Program in Astronomy and Astrophysics at The University of Arizona. We are very proud of our graduate students and our Ph.D. program, one of the highest ranked programs in the country, according to the 2011 National Research Council assessment. The atmosphere of the Department is informal and friendly, yet extremely active. Our large and diverse group of faculty, astronomers, postdocs, and graduate students pursue cutting edge research in theory, observation, and instrumentation. Our research spans the formation of stars and planets, to galaxy formation and the evolution of the Universe on the largest scales. As a Ph.D. candidate in our department you will be trained in astronomical research at the highest level. You will depart from our department with the skills of a world-class scientist, prepared to be a leader in our field.

The department is led by a large and accomplished faculty. We have four members of the National Academy of Sciences (Angel, Arnett, G. Rieke, M. Rieke), two MacArthur Fellows (“Genius Grants”), including a 2012 winner (Guyon), and multiple winners of Kavli, Sloan, Packard, and Guggenheim fellowships. Several of our faculty have received the highest prizes awarded by the American Astronomical Society and American Physical Society, including a 2013 winner of the APS Maria Goeppert Mayer Award (Ozel). They are leaders in international collaborations and instruments, including two instruments for the James Webb Space Telescope.

The new University-wide Research Data Center provides our students access to high-end, local supercomputing resources (275 TFLOPS) including distributed, shared-memory, and GPU architectures. Our Department is also the lead institution in NASA’s Nexus for Exoplanet System Studies (NExSS) and home to an interdisciplinary team of 25 faculty and 13 students and postdocs studying habitable exoplanet formation.

Our Center for Astronomy Education is among the nation’s leading science education research groups. At our department you will also have the opportunity to minor in Astrobiology, Physics, Planetary Sciences, or Optical Sciences to better prepare for the challenges that motivate you the most.

You will have direct access to world-class facilities for ground-based optical, infrared, and submillimeter observational astronomy, and an opportunity to be involved in major space astronomy and astrochemistry projects. Current facilities include the 2x8.4m Large Binocular Telescope, the 6.5m MMT, the twin 6.5m Magellan telescopes, the 10m Heinrich-Hertz Submillimeter Telescope, the Kitt Peak 12m mm-wave Telescope, the 2.3m Bok and 1.5m Kuiper telescopes, and the 1.8m Vatican Advanced Technology Telescope.
Steward Observatory is also a leading partner in the development of the 24.5m Giant Magellan Telescope in Chile, and of the VLBI with the Event Horizon Telescope. Survey science is facilitated by full membership in the SDSS-III and LSST consortia. These activities are complemented by world-class programs in instrumentation, including the Center for Astronomical Adaptive Optics, construction of NIRCam for JWST, as well as optics and instrumentation for all of our observing facilities including the future Giant Magellan Telescope.

In our program you will enjoy an academic environment with a rich history in astronomy and international prestige. Our graduate program was established in 1927 and in the past nine decades about 250 astronomers earned their PhD at The University of Arizona, making our program one of the largest in the country. Our graduates have been extremely successful: We rank among the top institutions in winning prestigious Hubble Fellowships upon graduation, including five winners in the last 5 years and 17 over the life of the program. Many of our graduates have gone on to prestigious professorships or similar positions of leadership within the astronomy community. A few notable examples include Hans-Walter Rix, Director of the Max-Planck-Institute for Astronomy in Germany, Pete Worden, NASA Ames Center Director, and Buell Jannuzi, former director of Kitt Peak and now Director of Steward Observatory and chair of the UA Department of Astronomy.

The department is committed to developing excellent professional scientists through its Ph.D. program. We welcome applications from undergraduates in astronomy and related sciences, including physics, mathematics, engineering, chemistry, and biology, who are can take advantage of this unique environment. I encourage you to review our website for further information. Applications are accepted online, please see the application procedures outlined at the end of this booklet. Applications received by December 15, 2015 (December 1, 2015 for international students) will be given full consideration. Please feel free to contact me if I can be of assistance.

Sincerely yours,

Dr. Daniel Apai

“"Our goal is to find the brightest students who will flourish in our program and give them all the resources and support they need to fully realize their potential and grow into successful independent researchers, the leaders of the next generation.""
You are about to make an important decision. While The University of Arizona provides great opportunities in astronomy, your job is to find the school where you will flourish and do the kind of science that will open opportunities for you.

How to Select a Graduate Program

Here are four suggestions to help you think through the decision:

No one graduate school is so much better than the rest that it becomes your only logical choice. All the very top programs in the United States are excellent, and you will do well if the fit is good. A degree from any good program can open doors for a successful career in astronomy. You are selecting where you are going to live, think, and play for the next 4-6 years. If you are unhappy, graduate school is not worth the considerable effort required from you.

It is good to consider the totality of educational opportunities in the surrounding community, not just the specific graduate program. Are there related departments at the same university? Does the community contain major additional astronomy centers that might be options for your research, as well as enriching the general academic environment in astronomy? How do the interests of the faculty align with your scientific interests? What facilities are available for you to conduct your research? To what share of those facilities will you have access?

At the same time, what is the breadth of related activity? For example, if you are heading into observational astronomy, it might be beneficial to be at a place that builds instruments even if you do not plan to do that, as it would broaden your perspective. If you are interested in theory, a vigorous observational program would surround you with people for whom your work could provide insight and who could suggest ways to test your ideas. Try to avoid single point failures; that is, be sure there are enough faculty members in your area(s) of interest that your success does not depend entirely on one of them.

Think strategically and long-term: You are not only selecting a program for the next few years, but are choosing your next steps in becoming an independent researcher and setting your course in a competitive field. Many programs offer short-term advantages or perks, such as a laptop or a named fellowship, while other programs may provide access to better courses, stronger faculty, or rare resources.

Good luck in your decision, and by all means come visit us to judge how we measure up for you!
UA members of two different projects take a break at the South Pole: Graduate students Junhan Kim and David Lesser, and UA faculty Dan Marrone and Craig Kulesa are developing new telescopes at Antarctica.

Join Our PhD Program and Launch a Career in Astrophysics

There are many reasons why The University of Arizona’s Astronomy and Astrophysics Graduate Program is among the top US astronomy programs, including the following:

- A distinguished and active faculty, including four members of the National Academy of Sciences and winners of Kavli, Sloan, Packard, MacArthur, Guggenheim, American Astronomical Society, and American Physical Society fellowships and prizes
- Access to world-class large, medium, and small-aperture telescopes for millimeter, infrared, and optical wavelengths
- A broad and vigorous program in theoretical astrophysics, with more than 20 faculty members drawn from Astronomy, Physics, Applied Mathematics, Lunar and Planetary Sciences Departments, and NOAO
- Leadership in the key astronomical observatories of the next decade, including the Large Synoptic Survey Telescope, the James Webb Space Telescope, and the Giant Magellan Telescope
- Innovative telescope and instrumentation research groups, including the SO Mirror Lab, the Center for Astronomical Adaptive Optics, the Imaging Technology Lab, Infrared Detector Lab, and three radio instrumentation labs
- Extensive supercomputing resources, including a new cutting-edge GPU-based supercomputer
- One of the largest astronomical communities with the Department of Astronomy, the Lunar and Planetary Laboratory, the National Optical Astronomy Observatory, the National Solar Observatory, and the Planetary Science Institute
- One of the largest and strongest exoplanet communities and lead institution of the NASA-funded Earths in Other Solar Systems research consortium
- Steward Observatory and Lunar and Planetary Laboratory are often ranked #1 in the US by NSF in research expenditures in space sciences
The University of Arizona’s Department of Astronomy and Steward Observatory (SO) is a leading astronomical research organization and home to a large and active graduate program in Astronomy and Astrophysics. Our Ph.D. program provides an outstanding intellectual environment that fully prepares students for a productive career in astronomy, and is among the highest ranked programs in the country according to the 2011 National Research Council assessment.

Our observational and theoretical research addresses every wavelength and field, from exoplanets to cosmology, and is supported by the active development of astronomical instrumentation for ground- and space-based observatories. Graduate students are supported for the duration of the typical Ph.D. period, and are central to the scientific environment of the department.

We are proud of the achievements of our graduates, with 70% of our graduates in the last decade holding astronomy-related positions, and with many having been accorded honors. We rank among the top institutions in winning prestigious Hubble Fellowships upon graduation, including five awardees in the last 5 years and 17 over the life of the program. This is the result of both our selective admissions procedure, and the energy and resources that we devote to graduate education.

An Inspiring Community
Working on the Biggest Problems

With over 400 employees, the Department of Astronomy, Steward Observatory, and affiliated units are one of the largest institutions dedicated to astronomical and astrophysical research. More than twenty large research groups within the Department focus on major research topics, covering essentially all major research areas from the very high redshift universe to the smallest exoplanets.

In a typical week at the Department, you will have the opportunity to attend any of the 15 to 20 seminars, colloquia, astro-ph coffees, afternoon teas, and journal club talks. Several of the corridors have strategically placed whiteboards and you will often find ad hoc groups of students and faculty discussing research questions or ideas in the corridors, in the library, or in one of the interaction areas.

Beyond all the activity in the Department, there is a large and vigorous astronomical community in the Tucson area. The University’s Lunar and Planetary Laboratory/Department of Planetary Sciences, the College of Optical Sciences, as well as the headquarters of the National Optical Astronomy Observatories, are located just across the street from Steward.

Our students often work with faculty and staff from these organizations and attend the steady stream of talks and meet the visiting astronomers from around the world.

“I really enjoy working in a large department. I’ve learned a lot from people outside of my primary research focus, and from visitors coming through Steward and NOAO across the street.”

Decker French, 5th year PhD student
A Research-Focused Program

Our graduate program strongly emphasizes active research. When admitted to our program we will invite you to visit the campus and meet with the many research groups at the Department. Most students select a research topic and join a research group at the beginning of their first semester and continue to be immersed in research throughout their studies.

In the first two years in our program you will take a set of courses that will provide you with a combination of robust foundation and introduction to cutting-edge topics; but the course load is designed in such a way to allow active research parallel with the courses.

Most of our students publish at least one first author refereed paper by the end of their second year.

After their fourth semester most of our students fully focus on their research projects, but some decide to take on additional courses to specialize on certain topics, such as out-of-department courses offered by the Department of Planetary Sciences, the College of Optical Sciences, or the Department of Physics.

“One thing I really enjoy about Steward is the emphasis placed on research. Students begin their projects during the first semester and the program is set up such that we can focus on research and classes or research and teaching, but rarely all three at the same time.”

Ekta Patel, 2nd year graduate student
An Unrivaled Suite of Telescopes

All our telescopes are accessible to our graduate students. We allow students to apply for telescope time without faculty collaboration. Our facilities – many of which are close to Tucson – include the 6.5-meter MMT telescope with state-of-the-art instrumentation for wide-field surveys and adaptive optics, the 6.5-meter Magellan I & II telescopes in Chile accessing the Southern Hemisphere sky, and the Large Binocular Telescope, one of the world’s most advanced optical telescopes. Its two 8.4 m wide mirrors provide the same light gathering ability as a 11.8 m wide single mirror telescope and a spatial resolution equivalent to a 22.8 m telescope.

We also manage the Arizona Radio Observatory, consisting of the 10 m Submillimeter Telescope on Mt. Graham and an ALMA dish on top of Kitt Peak telescope, making us one of the few departments with direct access to millimeter- and submillimeter-wavelength facilities. Steward Observatory also operates smaller telescopes on Mt. Lemmon and Kitt Peak, which also do forefront research owing to high-quality instrumentation that is engineered at the Observatory.

Steward faculty and students also lead many large-scale surveys on space telescopes, including Hubble, Spitzer, Herschel. Infrared instruments onboard the upcoming James Webb Space Telescope developed by teams led by Steward faculty offer exciting new opportunities to address many of the most important astrophysical questions with new and powerful instruments.

“At the UA, I conduct my research in an environment with countless world-class astronomers who are friendly, encouraging, and eager to collaborate.”

Nick Ballering, 6th year PhD student
A Cutting-Edge Instrumentation Program

Steward supports forefront instrumentation development in many areas, involving many students. The Richard F. Caris Mirror Lab produces the giant mirrors needed for major observatories, including Magellan, LBT, the Large Synoptic Survey Telescope, and the Giant Magellan Telescope.

The Center for Astronomical Adaptive Optics is developing and deploying the systems needed to achieve diffraction-limited performance from large ground-based telescopes. State of the art submillimeter receivers are built and deployed by the Steward Observatory Radio Astronomy Laboratory (SORAL) and the Arizona Radio Observatory. Steward faculty has led the development of some of the most powerful infrared instruments for space telescopes, including NICMOS for the Hubble Space Telescope, MIPS for the Spitzer Space Telescope. The upcoming James Webb Space Telescope’s NIRCAM instrument was built by a team led by Steward faculty Marcia Rieke and the MIRI instrument, which was developed by a team whose U.S. lead is Steward faculty George Rieke. Funded by various NASA grants our faculty and student teams are constantly developing novel technologies and ideas for new space missions and instruments.

Graduate students are involved in essentially all projects, often receiving major responsibilities in instrument development, testing, and operations. Our students regularly travel across the globe to use their specialized instruments to answer major questions in astrophysics — in any given semester you may find them launching balloon-born telescopes from Antarctica, working on space instrumentation at UA or NASA laboratories, working on adaptive optics technology in Italy, operating instruments in the Atacama Desert, observing at our Arizona observatories, in European observatories, or atop Mauna Kea in Hawaii.

“As a graduate student, I was able to lead my own observational projects and tinker with instruments in a way that is not possible anywhere else.”

Andrew Skemer, 2012 UA PhD, Current Hubble Fellow and UC Santa Cruz Assistant Professor
The Astronomy department is a member of the interdisciplinary Theoretical Astrophysics Program, which unites members of the Physics, Astronomy, Planetary Sciences, and the Applied Mathematics departments and NOAO, and includes more than 20 faculty. The new University-wide Research Data Center provides our students access to high-end, local supercomputing resources (275 TFLOPS) including distributed, shared-memory, and GPU architectures.

Key research topics in the Astronomy department’s theory groups include galaxy evolution and mergers, the destruction of satellite galaxies and formation of tidal streams, cosmological structure formation, local group dynamics, near field cosmology, physics of compact objects, supernovae, star and planet formation.

Our graduate students have the opportunity to write code for new accelerator technologies on the state-of-the-art El Gato cluster, such as GPUs and Intel-Phi coprocessors. Graduate student Evan Schneider used her own gpu-based hydrodynamics code, CHOLLA, to create the above-pictured ultra-high definition image of developing Kelvin-Helmholtz instabilities in a high resolution fluid simulation. These new accelerator technologies allow students to run simulations at speeds of 10 to 50 times that of a traditional CPU cluster.

“One of my favorite things about Steward is the community; upon arrival, I instantly felt welcomed by the faculty and my peers, all of whom I had ample time to talk to and get to know during my first few weeks through a number of events specifically geared towards new students settling in and becoming a part of the community.”

David Ball, 1st year graduate student
Stars and Stellar Evolution

Steward Observatory has an active program of research in stars and stellar evolution, as well as the explosive transient sources that accompany the deaths of stars. Both theoretical and observational efforts are underway, and stellar theorists and observers have lively interactions with one another.

Theoretical efforts have concentrated on fundamental questions in stellar evolution, such as computing the complex and detailed multidimensional effects of turbulent convection. This emphasizes the unstable late stages of massive star evolution and their connection to the eventual core collapse supernova, as well as the physics of supernova explosions themselves.

Observational work on stellar astrophysics utilizes Steward Observatory’s unprecedented access to a diverse suite of large and small ground-based telescopes in order to conduct optical and infrared studies of various types of stars and transient sources, and these projects often include a number of space-based facilities as well for access to ultraviolet and far-infrared wavelengths or high angular resolution. Areas of particular emphasis are spectroscopy of various classes of evolved stars, high angular resolution studies of circumstellar material around massive stars, dust production by massive stars and supernovae, studies of massive binary systems and their evolution, stellar kinematics, and time-resolved studies of explosive transients such as eruptive massive stars, thermonuclear and core-collapse supernovae, and gamma-ray bursts. Steward researchers also conduct observational studies of the host galaxy environments of massive stars and various types of explosive transients, and they obtain and analyze spectropolarimetry of supernovae to investigate the geometry of these explosions.

UA faculty Nathan Smith is coordinating a major research initiative on the massive star eta Carinae and its environment, seen here in a Hubble Space Telescope image.
Three-dimensional supercomputer simulation of a supernova explosion by UA faculty Dave Arnett.
Infrared image from the WISE satellite shows galactic star-forming regions strongly affected by young massive stars. UA faculty Serena Kim is studying how massive stars evaporate disks around other young stars, affecting their potential for planet formation.

First-year graduate student Kevin Wagner used extreme adaptics optics images to probe the environment of the young star HD100453 and discovered a rare two-armed spiral structure and imaged a gap, possibly formed by a giant planet.
Steward Observatory is leading a suite of projects that focus on understanding the formation of stars and their impact on the physics and chemistry of the interstellar medium and molecular clouds.

Based on powerful datasets – taken at wavelengths from X-rays to radio – we explore the characteristics of young stellar and sub-stellar objects as well as their circumstellar material. Our research projects approach key questions in star formation both observationally and theoretically.

Many of our star formation studies build on our unique telescope access, such as MMT, Magellan, LBT, UKIRT, Bok, and Arizona Radio Observatory telescopes located in Arizona and Chile. We also use other community telescopes, such as the ALMA millimeter interferometer, and the Chandra, Spitzer, Herschel, and Hubble Space Telescopes. Our groups are gearing up to use the upcoming powerful James Webb Space Telescope, two key instruments of which have been built by teams led by UA faculty Marcia Rieke and George Rieke.

Key research projects related to star formation include topics such as probing the role of UV radiation on young stars and their circumstellar disks in vicinity of massive stars, initial mass function as a function of star-forming environment and age, accretion and circumstellar disk properties, and occurrence rate and evolution of very low mass brown dwarfs and unbound planets.

Steward faculty is also leading an extensive set of observations and laboratory studies to characterize the chemical evolution of the interstellar medium, molecular clouds, and prestellar cores. The observations use the Arizona Radio Observatory’s powerful telescopes at the Mt. Graham and Kitt Peak observatories.

UA faculty Lucy Zirurys’s radio spectroscopy laboratory combines advanced techniques with numerical models to identify the spectral fingerprints of complex organics molecules and carries out extensive radio spectroscopic surveys of giant molecular clouds, comets, and environments of evolved stellar envelopes to identify the chemical connections between these objects.
Exoplanets and astrobiology research have a decades long tradition at Steward Observatory. Currently, Steward, LPL, and NOAO astronomers form what is probably the largest community of exoplanet researchers in the United States, with groups covering essentially every aspect of exoplanet formation, discovery, characterization, and habitability.

Our major exoplanets and astrobiology projects include:

The NASA-funded Large Binocular Telescope Interferometer, a major unique instrument developed to study exoplanets and dust disks exploiting the 22.8m LBT telescope.

The NASA-funded Earths in Other Solar Systems is a major research program aiming to understand how and where habitable, earth-like planets with biocritical ingredients (volatiles and organics) form. It involves over 40 faculty, postdocs, and students, and it is one of the largest program within NASA’s NExSS exoplanet research network.

Powerful Steward faculty led instruments and guaranteed time programs on the James Webb Space Telescope will explore planet formation and exoplanet atmospheres.

The NSF-funded MagAO instrument and associated research programs exploit a new extreme adaptive optics system on the Magellan telescope to discover new planets and study disks.

Nationwide interdisciplinary research is emerging as a new, powerful approach to some of the most exciting scientific challenges; but few schools can offer a broad enough foundation to position well young scholars for interdisciplinary research. The University of Arizona is among the very few institutions that offers a formal, well-planned PhD minor degree in astrobiology.

The 2014 Exoplanets and Biosignatures school for graduate students and postdocs at the UA’s Biosphere 2 facility was one of the many recently events organized by our exoplanet community.
Financial Support, Startup Funds, and Living in Tucson

When you are admitted to our program, we make a commitment to support you for the years that it typically takes our students to complete the Ph.D. program. Support may come in the form of teaching assistantships, faculty grant-supported research assistantships, or fellowships (from NSF, NASA, or The University of Arizona). With summer employment, the total annual salary of over $30,000 enables you to enjoy a comfortable lifestyle in Tucson where cost-of-living is low. Your tuition is waived or covered by the department.

When you are starting in our program we provide you with a starting budget to cover the purchase of a computer and/or other expenses supporting your research. As students join specific research projects, the projects usually cover additional expenses, such as travel, a laptop, and membership fees.

Tucson and its environs constitute a thriving city of close to a million people, supporting a wide variety of events, attractions, activities, and restaurants. The University of Arizona itself provides a wide range of entertainment options, ranging from top-flight cultural activities to high-level college athletics. 300 days of sunshine per year, mountains with hiking trails, rock climbing, biking, and skiing, and the beautiful and biologically diverse Sonoran desert encourages Tucsonans to pursue outdoor lifestyles. The weather is hot and dry in May, June, and September, with July and August bringing spectacular monsoon thunderstorms. The weather is close to ideal during the remainder of the year. Many of our students also enjoy sports such as ultimate, basketball, softball, soccer, and other activities on a weekly basis. A sample of some of the local attractions include Saguaro National Park, Sabino Canyon State Park, the Arizona-Sonora Desert Museum, and Tohono Chul Park. Finally, Tucson is an affordable and convenient place to live. Some graduate students buy homes, others rent, but most find that their stipends make for a good standard of living.

Further resources for living in Tucson: UA’s Off-campus Housing
How Can You Apply?

1) Read the letter from the Graduate Admission Chair in this brochure.
2) Carefully read the Application Requirements and Procedures in the next page.
3) Apply on-line through the University of Arizona Graduate Admissions webpage; please, apply only for FALL 2016.
4) Applications received by December 15, 2015 (domestic students) or December 1, 2015 (international students) will be given full consideration.
5) You will find information about our program in this brochure, and on the Steward Observatory website.
6) We recommend that you also study our faculty and research groups’ websites.

Have any further questions? Email Amanda Morris (morrisa1@email.arizona.edu).
Good Luck!

International Applicants

Our program strives to identify and attract the most promising and talented students who will flourish in our department from across the globe, regardless of their country of origin or the location of their undergraduate studies. Indeed, many of our current and past students have completed their undergraduate degrees outside the United States.

Note that The University of Arizona Graduate College sets a different deadline for international students (December 1, 2015), and a TOEFL examination is required if you are not from an English-speaking country.

We recognize that different students may have different undergraduate educations. Once admitted, we work with all of our students to best complement their backgrounds, if necessary, or we can give you partial or full credit for courses that you have already completed, and which are deemed equivalent to the courses we require. Furthermore, we can offer start dates that are different from the beginning of the UA semester to accommodate your moving schedule and completion of another degree.

Questions?

With questions on application procedure and material email Ms. Amanda Morris (morrisa1@email.arizona.edu).

With questions on the graduate program email Dr. Daniel Apai, Chair of the Graduate Admission Committee (apai@arizona.edu).
Application Requirements and Procedures

Deadlines: Dec 1, 2015 for international applicants; Dec 15, 2015 for US applicants.

Instructions can be found on the on-line Graduate College Admission application. Admission for Graduate Study in the Department of Astronomy is for the Ph.D. program only. We do not support a Master’s Degree program, and requirements are geared toward Ph.D. studies. Undergraduate training in Astronomy is not a necessity for students to pursue an Astronomy Ph.D. at The University of Arizona. A thorough background in physics, however, is essential. Applications are judged on the basis of undergraduate curriculum and performance, Graduate Record Examination scores in the standard tests as well as the Physics subject exam, research experience (if any), 3 letters of recommendation from faculty or supervisors familiar that lists your capabilities, and a personal essay.

For a foreign student from a non-English speaking country, you will additionally need to take the TOEFL examination by the beginning of December.

Personal Essay: The personal essay should briefly describe why you want to pursue the Ph.D. in Astronomy, why you have chosen the University of Arizona, what your scientific interests are, and what your goals are for the future.

GRE Exams: GRE exams are administered by the Educational Testing Service (ETS), Princeton, New Jersey. The tests should be completed sufficiently early so that the scores could arrive by the application deadlines. Test scores should be sent to the Graduate College ONLY. All scores are sent electronically from the testing center to the Graduate College. Please consult the ETS for the exact dates that exams are to be given. Please also include your GRE scores in your application cover letter or the CV you send to the Department. In case your official scores arrive after the deadlines, please send us unofficial scores as soon as you have them to aid in the review process.

Decisions:
Admissions decisions will be announced on or before April 1. By agreement among astronomy graduate departments, successful applicants must announce their decisions by April 15.

Addresses:
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933 North Cherry Avenue, N204
Tucson, AZ 85721-0065
Academic Office

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