I have been an assistant professor for almost 8 years: 1 year as a visiting assistant professor, and 7 years as a tenure-track assistant professor (including a 2-year extension of my probationary period due to the birth of my two children and care of a family member for illness). Over these 8 years, I have pursued my goals of excellence in teaching and in research while establishing leadership and providing service to my community. I aimed at grooming the next generation of professionals for the challenges they will have to face and making science in my field progress, while serving the different communities I belong to and taking leadership roles in them. As a result, over the years, I have significantly polished and refined my style as a professor and contributed to my field as a researcher, both from the points of view of science and community (such as by chairing several international events, or by striving to bring researchers with common interests but usually different areas together). I have also taken part and led initiatives aiming at women-related issues: such as developing the pool of women joining engineering, and more specifically computer science, majors; leading the women's advisory council to the President at UTEP.

\Box Teaching

Over the last 8 years at UTEP, I have taught a number of classes: undergraduate- and graduatelevel courses, CS (Computer Science) and MSIT (Master's of Science in Information Technology) courses. In particular, I have taught five core courses (two undergraduate courses, three graduate courses), one regularly offered elective course (artificial intelligence at both the undergraduate and graduate levels), and four special topics or topics in soft computing (undergraduate) / emerging programming paradigms (graduate).

Beyond training and mentoring students enrolled in my courses, I value mentoring and I dedicate a great part of my time to it. During my time at UTEP, I offered and taught over 10 independent study projects as an additional way to mentor students. Shortly after joining UTEP, I created the Constraint Reading and Research Group (CR2G): over the years, this group has gathered a total of four PhD students, eight Master's students, about 20 undergraduate students, and 15 high-school students.

\Box Research

My main drive in conducting research in computer science is to enhance decision-making processes: automating decisions while ensuring reliability of the process and the outcome. Most of the decisions I try to automate involve numerical models. The core of my research is in numerical constraint solving (NCS) and interval computations. My research interests mainly lie in the area of non-linear continuous constraint and optimization solving, along with the many applications of these.

During my probation period at UTEP, I received a total of \$1,276,243 in federal funding, of which \$596,092 as a PI of two NSF grants – one of which is an NSF CAREER grant, and additional funding from European grants. My efforts in acquiring funding have been consistent over the years,

totalling over 25 submitted proposals. I have strived to impact through my research. Publishing my work has been a priority: I have published in peer-reviewed conference proceedings (30), in books as chapters (5), and in journals (15); I also participated and contributed abstracts and/or short papers in workshops. I value collaboration above all: I have worked with people across the world, e.g., in Japan (National Institute of Informatics), France (University of Nantes), Italy (University of Perugia), and across Colleges and departments at UTEP. My interdisciplinary collaborations have resulted in joint papers with researcher from departments of mathematics, biological sciences, geological sciences, and education, to name a few. I also always involved students in my work to catch any opportunity to train them and to teach them team-working first hand.

\Box Service

I have consistently served on committees at UTEP, ranging from departmental to university-level committees. In particular, I have recently become chair of the Women's Advisory Council to the President (WAC) that has been putting the bulk of its efforts to making our campus family friendly. In addition, my involvement in my research community has been at many varied levels: from reviewer or program committee member for journals and many conferences, member of several NSF panels, conference chair, organizer of a number of conferences and workshops, to taking the lead in building a community of scientists and engineers interested in decision making, through the NSF-funded workshops CoProD and the popular community website constraintsolving.com. Finally, I value serving the local community and both implementing the access and excellence mission of UTEP and encouraging women to pursue computing careers. To this end, I have participated in a number of events in high-schools, at career fairs, science fairs, formal presentations, and I have worked towards including high-school students in my research, which I have been successful at over the last two years, now totalling a number of 15 high-school students (8 male / 7 female students).