

## STATEMENT OF CAREER GOALS

LIN JIU

I view Mathematics as a symbol and universal language and I am amazed by its beauty, power, and complexity, which, I am devoted to pursue and share with the others, as my lifelong commitment. To achieve or to contribute to such a meaningful advancement, it requires sustained research, dedicated teaching, and active engagement in academia.

In research, my focus lies in number theory and combinatorics, mainly with symbolic and probabilistic tools. New aspects and methods, especially with interdisciplinary collaborations, allow me to explore the unknowns, as well as to revisit classic results with novel applications and interpretations. In the near future, I plan to expand upon my current work on probabilistic and combinatorial models, special functions, symbolic computation methods and packages; while in the long term, more intersections with computer algebra, differential and information geometry can be expected.

In teaching, which is equally essential for my academic identity, I am willing to modify part of my teaching and adopt new already tested techniques into my course. This continuous adjustment encourages me to constantly reconsider the purpose and aims of the course and my teaching strategies. Both rigor and accessibility in class are equally important. In particular, encouraging students to access abstract concepts as part of a larger intellectual landscape. I am also committed to mentoring students at different levels, helping them navigate challenges, including but not limit to, major and courses plans, students research projects, and cultivation on the sense of belonging to the mathematical community.

Beyond research and teaching, I see academic life as a collaborative endeavor. I aim to contribute to departmental and university service, organize seminars and workshops, and participate actively in conferences. Such involvement is crucial for building networks that enrich scholarship and create opportunities for students and colleagues alike. In addition, I am deeply committed to promoting diversity and inclusivity, ensuring that the discipline welcomes and supports a broad range of voices and perspectives.

My ultimate career goal is to become a faculty member who manages to balance high-level research with dedicated teaching and mentorship. I envision a career defined by intellectual discovery, collaboration, and service, with the long-term aspiration of contributing to the enduring body of mathematical knowledge while inspiring and supporting the next generation of mathematicians.