

## 國立清華大學第 22 屆新進人員研究獎得獎人簡介

魏福村博士於 2010 年於國立清華大學取得數學系博士學位，並於 2010-2013 研發替代役期間繼續在清華大學從事博士後研究。在 2013-2016 期間至中央研究院數學所擔任研究學者，而 2016-2018 受聘於國立中央大學擔任助理教授。自 2018 年回到清華大學數學系服務擔任副教授。

魏福村博士的研究主題為「正特徵」數論方面，尤其致力於了解 Eisenstein 級數的特殊值所含的算術和幾何意義。Eisenstein 級數在近代數論最具影響的主題之一：自守表現論裡的「Langlands 對應」中扮演非常重要的角色。魏博士的研究結果可以將正特徵下的自守 L-函數特殊值利用一些幾何上的「週期」量來詮釋。這一系列的工作自魏博士的博士論文關於探討 L-函數特殊值開始研究至今，後續還有很多和 Eisenstein 級數相關的問題在拓展中。魏博士曾獲得中華民國數學會博士論文（金牌）獎，科技部博士後研究人員學術著作獎，理論中心年輕學者獎，傑出人才發展基金會年輕學者創新獎，科技部吳大猷先生紀念獎，以及科技部傑出研究獎。

魏福村博士特別感謝已退休的于靖院士一直以來的指導與協助，也非常感激系上潘戎衍主任的推薦和理學院蔡孟傑院長對魏博士學術研究上的支持。清華長期所提供的優異學術環境以及系上前輩們的幫忙也令魏博士的研究路上獲益良多。魏博士同時也很感謝理論中心所提供的學術研究資源與機會，透過其所舉辦的各種活動對魏博士的國際視野拓展上有很大的幫助。最後，魏博士想藉此機會來感謝家人的所有支持與配合。

## Brief Biography:

Dr. Fu-Tsun Wei received the Ph. D. degree at the Department of Mathematics, National Tsing Hua University in 2010. From 2010 to 2013, Dr. Wei did the alternative military service as a postdoctoral researcher in Tsing Hua, and then worked as a Research Scholar at Academia Sinica from 2013 to 2016. Dr. Wei became an Assistant Professor at National Central University in 2016, and moved back to Tsing Hua as an Associated Professor since 2018.

The research area of Dr. Fu-Tsun Wei is about number theory in “positive characteristic”, especially on the arithmetic and geometric interpretations of the special values of Eisenstein series. Eisenstein series plays a major role in the “Langlands program”, which is one of the most important topic in number theory. The research work of Dr. Wei enables us to express certain special values of automorphic L-functions in terms of “period” quantities of corresponding geometric objects. This series of work starts from Dr. Wei’s Ph. D. thesis on automorphic special L-values in positive characteristic. There are lots of subsequent results and related problems which are expected to be carried out in the near future. Dr. Wei won the Ph. D. Dissertation Gold Medal Award of the Mathematical Society of the Republic of China, Post Doctoral Research Article Award of National Science Council, NCTS Young Theoretical Scientists Award, Young Scholar Innovation Award of Foundation for the Advancement of Outstanding Scholarship, Ta-You Wu Memorial Award, Ministry of Science and Technology, and Outstanding Research Award, Ministry of Science and Technology.

Dr. Fu-Tsun Wei is very grateful to Academician Jing Yu for continuous guidance and encouragement. He also deeply appreciates Director Shu-Yen Pan of the Math Department for the nomination, and to Dean Meng-Kiat Chuah of the College of Science for his constant support. Dr. Wei thanks to Tsing Hua for excellent working condition, which is very helpful for the research. He also thanks to National Center for Theoretical Sciences for providing the research source and opportunities. So many international activities in NCTS expand his horizons. Finally, Dr. Wei would like to express his appreciation to his family for their support, patience, and sacrifices.