

## Dohyeong Kim

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RESEARCH INTERESTS	Number theory <ul style="list-style-type: none"><li>• Iwasawa theory</li><li>• Diophantine equations</li><li>• Arithmetic Chern-Simons theory</li></ul>
EDUCATION	Pohang University of Science and Technology, Pohang, Republic of Korea  B.S., Mathematics, February 2009  Ph.D., Mathematics, August 2014
EMPLOYMENT	March 2019 - Present Assistant Professor, Department of Mathematics, Seoul National University  July 2018 - February 2019 Research Scientist, Department of Mathematics, Massachusetts Institute of Technology  September 2016 - June 2018 Postdoctoral Assistant Professor, Department of Mathematics, University of Michigan  August 2014 - August 2016 Research Fellow, Center for Geometry and Physics, Institute for Basic Science
REFEREED PUBLICATIONS	[1] D. Kim, On the Tate-Shafarevich group of elliptic curves over $\mathbb{Q}$ , <i>B. Korean Math. Soc.</i> 2012 49:155–163.  [2] J. Coates, D. Kim, Introduction to the work of M. Kakde on the non-commutative main conjectures for totally real fields, <i>Noncommutative Iwasawa Main Conjectures over Totally Real Fields: Munster, April 2011</i> , Springer Proceedings in Mathematics and Statistics, Springer, 2012.  [3] D. Kim, On the $p$ -primary part of Tate-Shafarevich group of elliptic curves over $\mathbb{Q}$ when $p$ is supersingular, <i>B. Korean Math. Soc.</i> 2013 Vol. 50, No. 2, 407–416.  [4] D. Kim, $p$ -adic $L$ -functions over the false Tate extensions, <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2013, Volume 155 Issue 03, 483–498.  [5] D. Kim, On the transfer congruence between $p$ -adic Hecke $L$ -functions, <i>Cambridge Journal of Mathematics</i> 2015, Volume 3, Number 3, 355–438.  [6] D. Kim, A modular approach to cubic Thue-Mahler equations, <i>Math. Comp.</i> 2017, Vol 86, 1435–1471.  [7] D. Kim, Descent for the punctured universal elliptic curve, and the average number of integral points on elliptic curves, <i>Acta. Arith.</i> 183(2018) no.3 201–222.

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PREPRINTS

GRANTS            National Research Foundation, “Non-commutative Iwasawa theory for automorphic forms” 2012H1A8A1000581, from March 2012 to August 2014.  
AMS-Simons Travel Grant, from July 2017 to Feb 2019.  
Research Resettlement Fund for the New Faculty of Seoul National University, 2019-2020.

AWARDS            TJ Park Science Fellow, 2011-2012  
Sung-kee Chung Best Thesis Paper Award, 2014

CITIZENSHIP      Republic of Korea