

## Curriculum Vitae

### Inwon C. Kim

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### Research Interest

Analysis of partial differential equations on models arising in physical applications such as wetting, tumor growth, and crowd motion. Particular topics: nonlinear diffusion, geometric flow, dynamic free boundaries and phase transition problems.

### Professional Preparation

University of Texas at Austin  
University of Wisconsin at Madison  
Seoul National University  
Ph.D and M.A advisor: Takis P. Souganidis.

Ph.D. in Mathematics, 2002  
M. A. in Mathematics, 1999  
B.A. in Mathematics, 1997

### Appointments

Full professor, UCLA	2014-present
Associate Professor, UCLA	2009-2014
Assistant Professor, UCLA	2005-2009
C.L.E. Moore Instructor, MIT	2002-2005

### Awards and Grants

Simons Fellowship for Sabbatical leave	2020
NSF grant DMS-1900804	2019-2022
NSF grant DMS-1566578.	2016-2019
NSF grant DMS-1300445	2013-2016
NSF grant DMS-0970072	2010-2013
Sloan Fellowship	2008-2011
NSF grant DMS-0700732	2007-2010
NSF grant DMS-0401436	2004-2007
NSF grant DMS-0244991 (co-PI)	2003-2004
Frank III Dissertation Award, Dept. of Mathematics UT Austin	2002

## Students and Postdocs

### ◦ Ph.D students with current positions:

- Ryan Wallace (2018- ).
- Raymond Chu (2020- ).
- Dohyun Kwon (Ph.D 2020), Van Vleck Assistant Professor at UW Madison.
- Yuming Zhang (Ph.D 2019), SEW Assistant professor at UC San Diego.
- Brent Woodhouse (Ph.D 2018), Data Scientist, Arete Associates.
- William Feldman (Ph.D 2015), Assistant Professor at University of Utah.
- Damon Alexander (Ph.D 2014), Research Scientist, Amazon.
- Yao Yao (Ph.D 2012), Associate professor at National University of Singapore.
- Norbert Pozar (Ph.D 2011), Associate professor at Kanezawa University, Japan.

### ◦ Postdoctoral fellows with current positions:

- Jiajun Tong (2018-, Hedrick Assistant professor, UCLA)
- Hongwei Gao (2016-19, Lecturer, UC Irvine)
- Olga Turanova (2015-2018, Assistant professor, Michigan State Univ.)
- Alpar Meszaros (2015-2019, Assistant professor, Durham University, UK.)
- Nestor Guillen (2011-2014 , Assistant professor, Texas State University).

## Recent Communications

### ◦ Mini-courses and Plenary lectures

Mini-course on free boundaries in tumor growth, at Fields Institute, Dec 2020 (cancelled)

Mini-course on minimizing movements, at PIMS-UBC, March 2020

Plenary speaker, SIAM Analysis of PDEs biennial meeting. La Quinta, CA, December 2019

Mini-course on Optimal Transport, Yonsei University, Korea, June 12-14, 2019

Plenary speaker, AMS eastern section meeting, Buffalo NY, 2017

### ◦ Seminar talks and Conferences

*Geometric and Applied Analysis*, HCM, Bonn (online), July 2021

*Asymptotics, Operators, and Functionals*, University of Bath, UK (online), April 2021

*Homogenization Theory: Periodic and Beyond*, Oberwolfach (online), Mar 2021

*Optimal transportation in the natural sciences*, Oberwolfach (online), Feb 2021

*Connections workshop in Fluid Dynamics*, MSRI (online), Jan 2021

*Free boundary problems arising in applications*, AMS Sectional meeting (online), Oct 2020.

Colloquium at UBC, Vancouver, February 2020

*Reaction, Diffusion, and Homogenization*, annual Southern California PDE meeting, UC Irvine, CA, June 1-2, 2019.

*Workshop on Free boundary problems*, Columbia University, NY, May 23-24, 2019

*Hamiltonian systems, from topology to applications*, a workshop at MSRI, November 27th, 2018  
*PDEs and Geometric Measure theory*, a workshop at ETH, Switzerland, November 2018  
LMS-EPRSC Durham Symposium, Durham UK, September 2018  
*Advanced Developments for Surface Dynamics*, BIRS, Banff, June 2018  
PDE seminar, Max Planck Institute, Leipzig, October 2017  
*Optimal Transport and Related topics*, KIAS, Korea, July 2017

### **Professional Services**

Panelist for US National Science Foundation.  
Referee for mathematics journals.  
Associate Editor for Communications of the AMS (2021-)