

Ya Li, Ph.D.

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Department of Mathematics
Utah Valley University
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Orem, Utah 84058
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EXPERIENCE	Tenured Professor of Mathematics	August 2000-present
	Associate professor of Mathematics	August 1997- 2000
	Assistant professor of Mathematics	August 1994-1997
	Utah Valley University	Orem, Utah 84058

- Taught mathematics courses including
 - *Quantitative Reasoning,*
 - *Intermediate Algebra,*
 - *College Algebra (traditional, hybrid, & online),*
 - *Trigonometry,*
 - *Business Calculus,*
 - *Calculus I, II, III,*
 - *Ordinary Differential Equations,*
 - *Partial Differential Equations,*
 - *Linear Algebra,*
 - *Abstract Algebra,*
 - *Discrete Mathematics,*
 - *Mathematics for Elementary School Teachers I & II,*
 - *History of Mathematics,*
 - *Foundations of Analysis,*
 - *Complex Variables,*
 - *Numerical Analysis,*
 - *Graduate Level Ordinary Differential Equations (Spring 2019).*
- Served in
 - College Academic Standards Committee,
 - Math Lab Committee,
 - College Algebra Committee,
 - Mathematics Department Scheduling committee,
 - Mathematics Faculty Recruiting Committees,
 - Mathematics Chair Searching Committee,
 - Mathematics Department RTP Committee,
 - Mathematics Department Graduate Courses Committee.
 - Assisted Putnam Problem Solving Sessions for One Year
- Acted as the assistant chair for mathematics department for 2008-2009.
- Served as chair for scheduling committee for math department for 2006-2008.
- Served as Sterling Scholar Judge in mathematics category for Utah State high school students for the years 2002, 2015, 2017, & 2018.
- Coached Wasatch Junior High school math club for three years,
- Taught Pre-algebra, and Beginning Algebra for the gifted 5th and 6th grades at Morningside Elementary School, Salt Lake City, Utah, for two years.

Assistant Professor of Mathematics
Teikyo Westmar University

August 1992-1994
Le Mars, Iowa 51031

- Taught mathematics courses including
 - *Basic Algebra,*
 - *College Algebra, Trigonometry,*
 - *Discrete Mathematics,*
 - *Differential Equations,*
 - *Numerical Analysis,*
 - *Linear Algebra.*
- Served in
 - Student Life Committee,
 - Faculty Senate,
 - as a student advisor.

Assistant professor of Mathematics
Utah Valley Community College

August 1990-1992
Orem, Utah 84058

- Taught mathematics courses including
 - *Intermediate Algebra,*
 - *College Algebra,*
 - *Trigonometry,*
 - *Business Calculus,*
 - *Calculus I, &, II.*
- Served in Mathematics Faculty Recruiting Committee.
- Served as Sterling Scholar Judge in mathematics category for Utah State high school students for the year 1992.

Teaching Fellow
Teaching Assistant
Department of Mathematics

September 1984-1989
September 1982-1984
University of Utah

- Independently taught undergraduate courses including
 - *Plane Trigonometry,*
 - *College Algebra,*
 - *Calculus I, II, &, III.*

Graduate Research Assistant
Department of Mathematics

summers of 1983-1988
University of Utah

- Investigated diffusion-reaction differential equations by numerical methods.
- Simulated singular integral equations for electrical signals.

EDUCATION: **Ph.D.**
Department of Mathematics
Emphasis: Applied Mathematics
University of Utah
Salt Lake City, Utah 80102

June 1990
GPA 3.91/4.0

Bachelor of Science
Department of Mathematics
Emphasis: Numerical Analysis
University of Science & Tech. of China
Heifei, Anhui, China

January 1982

PUBLICATIONS: Zeng GL, Li Y, and DiBella ERV: Non-iterative reconstruction with a prior for undersampled radial MRI data, *Int. J. Image. Sys. Tech.*, vol. 23, pp. 53-58, 2013, PMID: 25520543, PMCID: [PMC4266489](https://pubmed.ncbi.nlm.nih.gov/25520543/)

Zeng GL, Li Y and Zamyatin A: Iterative total-variation reconstruction vs. weighted filtered-back projection reconstruction with edge-preserving filtering, *Phys. Med. Biol.*, vol. 58, pp. 3413-3431, 2013, PMID: 23618896, PMCID: [PMC4247166](https://pubmed.ncbi.nlm.nih.gov/23618896/)

Zeng GL and Li Y: A discrete convolution kernel for no-DC MRI, *Inverse Problems*, vol. 31, 085006, 2015.

Zeng GL and Li Y: Fourier-Domain Analysis of the Iterative Landweber Algorithm, *IEEE Transactions on Radiation and Plasma Medical Sciences*, Vol 1. No. 6, pp 511-516 November, 2017

Zeng GL and Li Y: Extension of Emission Expectation Maximization Lookalike Algorithms to Bayesian Algorithms, *Visual Computing for Industry, Biomedicine and Art*, <https://doi.org/10.1186/s42492-019-0027-4>, 2019.

Zeng GL, Li Y, and Huang Qiu: Analytic Time of Flight Positron Emission Tomography Reconstruction: Two dimensional Case, *Visual Computing for Industry, Biomedicine ,and Art*, <https://doi.org/10.1186/s42492-019-0035-4>, 2019.

Zeng GL, Li Y, and Huang Qiu: Analytic Time of Flight Positron Emission Tomography Reconstruction: Three dimensional Case, *Visual Computing for Industry, Biomedicine ,and Art*, <https://doi.org/10.1186/s42492-020-0042-5>,2020.