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Shing-Tung Yau (/ j aʊ /; Chinese: 丘成桐; pinyin: Qiū Chéngtóng; born April 4, 1949) is an American mathematician and the William Caspar Graustein Professor of Mathematics at Harvard University.. Yau was born in Shantou, China, moved to Hong Kong at a young

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age, and to the United States in 1969. He was awarded the Fields Medal in 1982, in recognition of his contributions to partial ...

Mathematics - University of California, San Diego

The research topics include: topological and variational methods in differential equations and inclusions, quantitative methods and dynamics of partial differential equations, optimization, fixed point theory and applications of nonlinear analysis to real world problems.

Mathematics (Course 18) < MIT

Covers Sobolev spaces; boundary value problems; additional topics may include: Cauchy-Kowalevski theorem, first order equations, initial value problems, and variational methods. Prerequisite:

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MATH 557. View course details in MyPlan: MATH 558. MATH 559 Introduction to Partial Differential Equations (3) Continuation of MATH 558. Covers selected ...

Department of Mathematics < MIT

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The brain effortlessly solves blind source separation (BSS) problems, but the algorithm it uses remains elusive. In signal processing, linear BSS problems are often solved by Independent Component Analysis (ICA). To serve as a model of a biological circuit, the ICA neural network (NN) must satisfy at least the following requirements: 1.

American Institute of Mathematical Sciences

My research focuses on developing new tools for probabilistic learning from complex data - methods development is directly motivated by challenging applications in ecology/biodiversity, neuroscience, environmental health, criminal justice/fairness, and more.

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Shing-Tung Yau - Wikipedia

Proceedings of the 1991 American Control Conference, Boston, MA, pp. 343--351, 1991. A more biologically plausible learning rule than backpropagation applied to a network model of cortical area 7a. P.

Publications - University of California, Berkeley

Transactions of the American Mathematical Society, 366, 1179–1193, 2014. [11] Stationary Kirchhoff systems in closed 3-dimensional manifolds, avec P.D.Thizy, Calculus of Variations and Partial Differential Equations, 54, 2085-2114, 2015. [12] Static Klein-Gordon-Maxwell

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18.965 Geometry of Manifolds I. Prereq: 18.101, 18.950, or 18.952 G (Fall) 3-0-9 units. Differential forms, introduction to Lie groups, the DeRham theorem, Riemannian manifolds, curvature, the Hodge theory. 18.966 is a continuation of 18.965 and focuses more deeply on various aspects of the geometry of manifolds. Contents vary from year to year ...

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The Department of Mathematics offers training at the undergraduate, graduate, and postgraduate levels. Its expertise covers a broad spectrum of fields ranging from the traditional areas of "pure" mathematics, such as analysis, algebra, geometry, and topology, to applied mathematics areas such as combinatorics, computational biology, fluid dynamics, theoretical computer science, and theoretical ...

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using invariant manifolds. 5 ...

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The American Mathematical Monthly 128:5, 446-456. ... (2021) A
Global Linear and Local Superlinear (Quadratic) Inexact Non-
Interior Continuation Method for Variational Inequalities Over
General Closed Convex Sets. Set-Valued and Variational Analysis
29:1, 109-144. ... Mathematical Problems in Engineering 2021,
1-17. (2021) Variable-Sized Blocks ...

Emmanuel Hebey - Cergy-Pontoise University

A simple closed curve is also called a Jordan curve. The Jordan
curve theorem states that the set complement in a plane of a Jordan
curve consists of two connected components (that is the curve

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divides the plane in two non-intersecting regions that are both connected).. A plane curve is a curve for which is the Euclidean plane—these are the examples first encountered—or in some cases the ...

David B. Dunson - Scholars@Duke | Scholars@Duke

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Differential forms, manifolds, smooth maps, vector fields, the Euler

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characteristic, integration on manifolds, and de Rham cohomology.
Notes: MATH 740 will be an elective course acceptable (but not required) for the PhD Degree in the Mathematical Sciences offered by the Department of Mathematical Sciences.

Advances in Mathematical Sciences and Applications

(2021) Convergence Analysis for Variational Inclusion Problems
Equilibrium Problems and Fixed Point in Hadamard Manifolds.

Numerical Functional Analysis and Optimization 42 :5, 567-582.

(2021) Multiple Tensor-on-Tensor Regression: An Approach for
Modeling Processes With Heterogeneous Sources of Data.

Curve - Wikipedia

Convergence and optimal control problems for elliptic-parabolic

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pp.155-183 T. Godoy, J. Hernandez, U. Kaufmann, and S. Paczka

On the periodic parabolic logistic type equation with unbounded weight / pp.185-193

MATHEMATICS - University of Washington

American Journal of Mathematics 1878 - 2015 The American

Mathematical Monthly 1894 - 2017 The Annals of Applied

Statistics 2007 - 2017 Annals of Economics and Statistics 2009 -

2021 Annales d'Économie et de Statistique 1986 - 2008 Annales de
l'insée

Mathematics (MATH) < George Mason University

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