

CURRICULUM VITAE

WEIYONG HE

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Univeristy of Oregon
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Education

- **University of Wisconsin-Madison:** Ph.D., 09/2004-05/2007.
Advisor: Prof. Xiuxiong Chen
- **University of Science & Technology of China:** Master, 09/1997-07/2004.
Advisor: Prof. Qing Chen

Employment

- **University of Oregon:** Assistant Prof., 09/2009 —Present.
 - **University of British Columbia:** PIMS postdoc, 09/2007-07/2009.
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Research Interests: Differential Geometry, Geometric Analysis and Partial Differential Equations.

- Complex Geometry, extremal metrics and the Calabi flow.
 - Geometric evolution equations, the mean curvature flow.
 - Nonlinear PDEs
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Publications/Preprints:

- Albert Chau, Jingyi Chen, Weiyong He; *Entire self-similar solutions to Lagrangian Mean curvature flow*, arXiv:0905.3869.
- Weiyong He; *Local solution and extension to the Calabi flow*, arXiv:0904.0978.
- Albert Chau, Jingyi Chen, Weiyong He; *Lagrangian Mean Curvature flow for entire Lipschitz graphs*, arXiv:0902.3300.
- Weiyong He; *The Donaldson equation*, arXiv:0810.4123.
- Jingyi Chen, Weiyong He; *A note on singular time of mean curvature flow*, arXiv:0810.3883.
To appear on Math. Z.
- Xiuxiong Chen, Weiyong He; *The space of volume forms*, arXiv:0810.3880.
- Xiuxiong Chen, Weiyong He; *The Calabi flow on toric Fano surfaces*, arXiv:0807.3984.
- Xiuxiong Chen, Weiyong He; *The Calabi flow on Kähler surface with bounded Sobolev constant-(I)*, arXiv:0710.5159.
- Xiuxiong Chen, Weiyong He; *On the Calabi flow*, Amer. J. Math. 130 (2008), no. 2, 539–570.
- Weiyong He; *Remarks on the existence of bilaterally symmetric extremal Kähler metrics on $\mathbb{C}\mathbb{P}^2 \# 2\overline{\mathbb{C}\mathbb{P}^2}$* , IMRN 2007, no. 24.

- Qing Chen; Xiuxiong Chen; Weiyong He; *Singular angles of weak limiting metrics under certain integral curvature bound*, Pacific J. Math. 231 (2007), no. 1, 35–49.

Invited Conference Talks

- 15th International Symposium on Complex geometry, Oct 28-Nov 2, 2009, Sugadaria, Japan.
- Pacific Rim Complex Geometry Conference July 28 - August 1, 2008 Koreana Hotel, Seoul. “*The Calabi flow*”.
- Workshop on Geometric Analysis, July, 2008, Wuhan University, Wuhan, China. “*The space of Volume forms*”.
- Extremal Kaehler Metrics and Kaehler-Ricci Flow, March 02— March 29 2008, Centro di Ricerca Matematica Ennio De Giorgi, Pisa. “*The Calabi flow on Kähler surface*”.
- Workshop of Geometric Evolution Equations, MSRI, Mar., 2007. “*On the Calabi flow*”.
- Nonlinear Elliptic Equation and Applications to Geometry, University of Science and Technology of China, Huangshan, May 2006. “*On the Calabi flow*”.

Colloquium/Seminar talks

- University of California-Irvine, *The space of volume forms*, UCI-UCSD joint differential geometry seminar, Oct, 2009.
- University of Oregon, *Extremal metrics and the Calabi flow*, Colloquium talk, Mar, 2009.
- Stanford University, *The space of volume forms*, Geometry Seminar, Mar, 2009.
- Ohio State University, *The Lagrangian flow for entire Lipschitz graphs*, PDE Seminar, Feb, 2009.
- University of Wisconsin-Madison, *The Lagrangian flow for entire Lipschitz graphs*, PDE Seminar, Feb, 2009.
- University of Alberta, *Extremal metrics and the Calabi flow*, Colloquium talk, Jan, 2009.
- University of British Columbia, *The space of volume forms*, Differential Geometry - Mathematical Physics - Partial Differential Equations Seminars, Oct, 2008.
- Princeton University, *The Calabi flow on Kähler surface*, Differential geometry seminar, Oct, 2007.
- University of British Columbia, *The Calabi flow on Kähler surface*, Differential Geometry - Mathematical Physics - Partial Differential Equations Seminars, Oct, 2007.
- University of Wisconsin-Madison, *The Calabi flow on Kähler surface*, Geometry/Topology seminar, Oct, 2007.
- University of California-Irvine, *On the Calabi flow*, Differential geometry seminar, Nov. 2006.
- University of Iowa, *On the Calabi flow*, Differential geometry seminar, Oct. 2006.
- University of Wisconsin-Madison, *On the Calabi flow*, Geometric analysis seminar, Sept. 2006.

Teaching Experience

Lecturer: University of British Columbia

Calculus, Math 100, Winter section, 2007.

Matrix algebra, Math 221, Spring section, 2008.

Calculus, Math 104, Winter section, 2008.

Calculus, Math 105, Spring section, 2009.

Teaching Assistant: University of Wisconsin-Madison (Sept. 2004 – May. 2007)

Calculus, Linear Algebra, Finite Mathematics.

Teaching Assistant: University of Science and Technology of China (Sept. 2002 – June 2004)

Calculus, Linear Algebra, Differential Geometry.