# Guangming Yao *Assistant Professor, Department of Mathematics, Clarkson University*

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## Education

**Ph.D., University of Southern Mississippi** **Hattiesburg, MS, USA, July 2010**

Computational Science emphasis in Mathematics

Dissertation: Localized radial basis function method for solving PDEs

Advisor: Prof. Ching-Shyang Chen

**M.S., Harbin Normal University** **Harbin, China, June 2006**

Mathematics and Applied Mathematics

Thesis: The homotopy method for multi-objective programming problems

Advisor: Prof. Wen Song

**B.S., Harbin Normal University** **Harbin, China, July 2003**

Mathematics and Applied Mathematics

Project: Topics in the integration factor methods

## Work Experience

Associate Professor

**Clarkson University** *Potsdam, NY, USA*

Department of Mathematics **Feb 2018** – Present
Affiliated with Institute for A Sustainable Environment Aug 2012 – Present
Courtesy appointment with Institute for STEM Education July 2017 – Present

Assistant Professor

**Clarkson University** *Potsdam, NY, USA*

Department of Mathematics June 2012 – Feb 2018

**Rowan University** *Glassboro, NJ, USA*

Department of Mathematics Sep 2011–May 2012

Post-Doctoral Fellow

**U. of Wisconsin at Milwaukee** *Milwaukee, WI, USA*

Department of Electrical Engineering and Computer Science Aug 2010–Aug 2011
Project: Image-based multi-scale modeling of $Ca^{2+}$ Signaling in Ventricular Myocytes

Research Associate

**IMPOL Aluminum Industry** *Ljubljana, Slovenia*

Research and Development Department Aug 2009–Feb 2010
Project: Computational modeling of hot-tearing and other casting defects

Graduate Research & Teaching Assistant

**U. of Southern Mississippi** *Hattiesburg, MS, USA*

Department of Mathematics Jan 2007 – Aug 2010

Mathematics Instructor & Scientific Research Secretary
**Harbin University** *Harbin, China*
School of Mathematics and Computer Science June 2006 – Jan 2007

Instructor
**Harbin Normal University** *Harbin, China*
School of Chemical Engineering Sep 2005 – Feb 2006

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## Research Areas and Interests

- Computational partial differential equations
- Radial basis function interpolation and approximation
- Applied and computational mathematical modeling

## Publications

**Google Scholar Citations: 270, 07/11/2017 Data: h-index: 9, i10-index: 9**

Peer-Refereed Journal Publications click titles for electronic copies

30. V. Pratap, Y. Chen, G. Yao, S. Nakao, Modeling and simulation of lifetime of Levoglucosan in wintertime, Atmosphere, Accepted.

29. R. Parshad, G. Yao and W. Li, Another mechanism to control invasive species and population explosion: "ecological" damping, Differential Equations and Dynamical System, Published online.

28. H. Zheng, G. Yao, and L. H. Kuo, On the selection of a good shape parameter of localized radial basis functions collocation methods, Advances in Applied Mathematics and Mechanics, Accepted.

27. W. Li, G. Song, G. Yao, Piecewise moving least squares approximation, *Applied Numerical Mathematics*, 115, 68–81, 2017.

26. G. Yao, C. S. Chen, and H. Zheng, A modified method of approximate particular solutions for solving linear and nonlinear PDEs, *Numerical Methods for Partial Differential Equations*, Accepted, 2017.

25. G. Yao, K. M. Bliss, M. Crimi, K. R. Fowler, J. Clark-Stone, W. Li, P. J. Evans, Radial basis function simulation of slow-release permanganate for groundwater remediation via oxidation, *Journal of Computational and Applied Mathematics*, 307, 235–247, 2016.

24. M. Bani-Yaghoub, G. Yao, H. Voulov, Existence and stability of stationary waves of a population model with strong Allee effect, *Journal of Computational and Applied Mathematics*, 307, 385–393, 2016. [Citations: 4]

23. G. Yao, An improved localized method of approximate particular solutions for solving elliptic PDEs, *Computers and Mathematics with Applications*, 71(1), 171–184, 2016.
[Citation: 1]

22. G. Yao, C. S. Chen, W. Li, and D. L. Young, The localized method of approximated particular solutions for near-singular two- and three-dimensional problems, *Computers and Mathematics with Applications*, 70(12), 2883–2894, 2015. [Citation: 1]

21. W. Li, X. Liu, G. Yao, A local meshless collocation method for solving certain inverse problems, *Engineering Analysis with Boundary Elements*, 57, 9–15, 2015. [Citations: 4]

20. G. Yao, J. Duo, C. S. Chen and L. H. Shen, Implicit local radial basis function interpolations based on function values, *Applied Mathematics and Computation*, 265(15), 91–102, 2015. [Citations: 5]

19. M. Bani-Yaghoub, G. Yao, M. Fujiwara, and D. E. Amundsen, Understanding the interplay between density dependent birth function and maturation time delay using a reaction-diffusion population model, *Ecological Complexity*, 21, 14–26, 2015. [Citations: 10]

18. C.S. Chen, X. Jiang, W. Chen, G. Yao, Fast solution for solving the modified Helmholtz equation with the method of fundamental solutions, *Communications in Computational Physics*, 17(03), 867–886, 2015. [Citations: 5]

17. P. W. Fok, X. Yan, G. Yao, Analysis of credit portfolio risk using hierarchical multifactor models, *Journal of Credit Risk*, 10(4), 45–70, 2014. [Citations: 3]

16. K. Black, G. Yao, Note taking in multi-media settings, *PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies)*, 24(5), 421–441, 2014. [Citation: 1]

15. M. Bani-Yaghoub, G. Yao, and A. Reed, Modeling and numerical simulations of single species dispersal in symmetrical domains, *International Journal of Applied Mathematics*, 27(6), 525–547, 2014. [Citations: 5]

14. K. Liu, G. Yao, and Z. Yu, Parallel acceleration for modeling of calcium dynamics in cardiac myocytes, *Bio-Medical Materials and Engineering 23*, 24(1), 1417–1424, 2014. [Citation: 1]

13. G. Yao, W. Song, A weaker constraint qualification of globally convergent homotopy method for a multiobjective programming problem, *Applied Mathematics*, 4(2), 343–347, 2013. [Citation: 1]

12. G. Yao, S. Islam, and B. Šarler, Assessment of global and local meshless methods based on collocation with radial basis functions for parabolic partial differential equations in three dimensions, *Engineering Analysis with Boundary Elements*, 36, 1640–1648, 2012. [Citations: 34]

11. G. Yao and Z. Yu, A localized meshless approach for modeling spatial-temporal calcium dynamics in ventricular myocytes, *International Journal for Numerical Methods in Biomedical Engineering*, 28(2), 187–204, 2012. [Citations: 6]

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10. Z. Yu, G. Yao, M. Hoshijima, A. Michailova, and M. Holst, Multiscale modeling of calcium dynamics in ventricular myocytes with realistic transverse tubules, *International Journal for Numerical Methods in Biomedical Engineering*, 58(10), 2947–2951, 2011. [Citations: 3]

9. G. Yao, J. Kolibal, and C.S. Chen, A localized approach for the method of approximate particular solutions, *Computers and Mathematics with Applications*, 61(9), 2376–2387, 2011. [Citations: 52]

8. G. Yao, B. Šarler, and C. S. Chen, A comparison of three explicit local meshless methods using radial basis functions, *Engineering Analysis with Boundary Elements*, 35, 600–609, 2011. [Citations: 34]

7. G. Yao, C. H. Tsai, and W. Chen, The comparison of three meshless methods using radial basis functions for solving fourth-order partial differential equations, *Engineering Analysis with Boundary Elements*, 34, 625–631, 2010. [Citations: 24]

6. G. Yao, S. Islam, B. Šarler, A comparative study of global and local meshless methods for diffusion-reaction equations, *Computer Modeling in Engineering and Sciences*, 59(2), 127–154, 2010. [Citations: 19]

5. G. Yao, C. S. Chen and C. C. Tsai, A revisit on the derivation of the particular solution for the differential operator $\Delta^2 \pm \lambda^2$, *Advances in Applied Mathematics and Mechanics*, 1(6), 750–768, 2009. [Citations: 5]

4. W. Song and G. Yao, Homotopy method for general multiobjective programming problems, *Journal of Optimization Theory and Applications*, 138(1), 139–153, 2008. [Citation: 18]

3. N. E and G. Yao, The boundedness of the Lagrange multiplier set, *Natural Sciences Journal of Harbin Normal University*, 124(6), 19–20, 2008. In Chinese.

2. J. Ding and G. Yao, The eigenvalue problem of a specially updated matrix, *Applied Mathematics and Computation*, 185(1), 415–420, 2007. [Citations: 12]

1. G. Yao and Wen Song, Homotopy method for multi-objective programming problems, *Journal of Natural Science of Heilongjiang University*, 24(2), 253–256, 2007. In Chinese.

[Citations: 4]

## Peer-Refereed Conference Proceedings

1. G. Yao, C. S. Chen, M. Jelen and B. Šarler, Meshless solutions of temperature fields for use in dendritic growth simulations, *Proceeding of International Conference on Optimization Using Exergy-Based Methods and Computational Fluid Dynamics*, 231–241, 2009.

[Citation: 1]

## PhD Dissertation

1. G. Yao, Local radial basis function method for solving partial differential equations, The University of Southern Mississippi, 2010. [Citations: 18]

## Papers Under Review

1. W. Li and G. Yao, Comparison of two meshless methods for solving elliptic PDEs, submitted to Engineering Analysis and Boundary Elements.

2. G. Yao, K. Black, M. Ramsdell, CoOrdinated math-physics assessment as an alternative pathway in early STEM, submitted to PRIMUS.

3. G. Yao, Wen Li, L. H. Kuo, Solving time-dependent PDEs with combination of the modified LMAPS and the Houbolt method, submitted to Computers & Mathematics with Applications on 2/11/2018.

Papers Near Completion

1. G. Yao, J. Skufca, M. Ramsdell, and K. Black, COMPASS Students' continuing performance in Math, in progress.
2. M. Bani-Yaghoub, G. Yao, C. Ou, Analysis of a hyperbolic-parabolic population model: dispersal delay as a survival mechanism for invasive species, in progress.
3. G. Yao, M. Crimi, and K. Kavanagh, 3D modeling and simulation of horizontal well, in progress.
4. G. Yao, W. Li, The localized method of approximated particular solutions for finding the critical domains of quenching problems, in progress.

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## Invited Talks/Posters

1. G. Yao, Local integrated polyharmonic spline RBF for elliptic and parabolic equations, *ICERM Workshop, Localized Kernel-Based Meshless Methods for Partial Differential Equations*, Aug 7, 2017 – Aug 11, 2017, Brown University.
2. G. Yao and W. Li, Local radial basis function method for quenching problem, *Minisymposium: Novel Numerical Methods for PDEs*, SIAM Annual 2017, Pittsburgh, Pennsylvania, USA, July 10–14, 2017.
3. G. Yao, Training for mathematical modeling competitions, *Minisymposium: Early Experiences in Mathematical Modeling for Undergraduates*, 2016 SIAM Conference on Applied Mathematics Education, Philadelphia, Pennsylvania, USA, September 30–October 2, 2016.
4. G. Yao, An implicit integrated polyharmonic splines method for PDEs, *MiniSymposium: Theory and Formulation for Novel Computational Methods*, International Conference on Computational Methods 2016, Berkeley, CA, USA, August 1st-4th, 2016. **Key Note**
5. G. Yao, W. Li, M. C. Cheng, A localized Kansa's method for phonon Boltzmann transport equations in six-dimensional space, *MiniSymposium: Application and Theory of Meshfree Methods for Engineering and Scientific Problems*, International Conference on Computational Methods 2016, Berkeley, CA, USA, August 1st-4th, 2016.
6. G. Yao and W. Li, A localized radial basis function method for solving diffusion equations, *Minisymposium: Novel Numerical Methods for PDEs*, 2016 SIAM Annual Meeting, Boston, Massachusetts, USA, July 11–15, 2016.
7. G. Yao, Scattered data interpolation and numerical PDE using radial basis functions, *Research Experience for Undergraduate Students*, SUNY Potsdam, Potsdam, NY, USA, June 16, 2016.
8. G. Yao, Radial basis function: from scattered data interpolation to partial differential equations, *PDE Seminar*, Department of Mathematics, Clarkson University, Potsdam, USA, April 23, 2015.
9. G. Yao, K. Bliss, M. Crimi, and K. Fowler, Kansa's method for 2D simulation of slow-release permanganate for groundwater remediation via oxidation, *Minisymposium: Recent Advances in Finite Element Methods*, The 1st Annual Meeting of SIAM Central States Section, Rolla, Missouri, USA, April 11–12, 2015.

10. G. Yao, local nodal meshless method for PDEs– localized method of approximate particular solutions using thin-plate spline RBFs, *Mini-symposium: Advances in High-order Computational Methods*, The 1st Annual Meeting of SIAM Central States Section, Rolla, Missouri, USA, April 11–12, 2015.

11. G. Yao, Numerical simulations to a PDE model for calcium signaling in heart muscle disease, *Research Experience for Undergraduate Students*, SUNY-Potsdam, Potsdam, USA, July 29, 2013.

12. G. Yao, Calcium dynamics analysis using a meshless method, Department of Mathematics, Heilongjiang University, Harbin, China, July 4, 2013.

13. G. Yao, Introduction to localized method of approximated particular solutions, Taiyuan University of Technology, Taiyuan, China, May 30, 2013.

14. G. Yao, Application of two meshless methods on a heart muscle disease modeling problem, Taiyuan University of Technology, Taiyuan, China, May 28, 2013.

15. G. Yao, Localized method of approximate particular solutions (LMAPS) for solving system of diffusion-reaction equations for calcium dynamics analysis, Hohai University, Nanjing, China, May 20, 2013.

16. G. Yao, Meshless method: from scattered data interpolation to moving least square approximation, Hohai University, Najing, China, May 16, 2013.

17. G. Yao, Z. Yu, and P. Lao, Parameter sensitivity analysis of system of diffusion-reaction model for calcium sparks in cardiac myocytes, *Workshop: Mathematical challenges in biomolecular/biomedical imaging and visualization, Mathematical Biosciences Institute*, The Ohio State University, February 18–22, 2013.

18. G. Yao, A localized meshless approach for modeling calcium dynamics, Department of Mathematics, Clarkson University, Potsdam, NY, USA, March 13, 2012.

19. G. Yao, P. W. Fox, Career in Biomathematics, Department of Mathematics, Rowan University, November 17, 2011.

20. G. Yao, A radial basis function method for solving calcium dynamics model, Department of Mathematics, Rowan University, November 7, 2011.

21. G. Yao, Reaction-diffusion modeling of calcium dynamics in ventricular myocytes, *Department of Mathematical Sciences, University of Delaware*, October 19, 2011.

22. G. Yao, A localized meshless method for modeling spatial-temporal calcium dynamics in ventricular myocytes, Department of Biostatistics and Computational Biology, School of Medicine and Dentistry, University of Rochester, August 9, 2011.

23. G. Yao, Computational modeling of hot-tearing and other casting defects, IMPOL Aluminum Industry, Slovenska Bistrica, Slovenia, February 10, 2010.

## Contributed Talks/Posters

1. G. Yao, A radial basis function method on problems of blow-ups in nonlinear parabolic equations, *Symposium 912–Meshfree and Particle Methods: New Developments and Applications, USNCCM14-101*, Montreal, Quebec, Canada, July 17-20, 2017.

2. G. Yao, K. Black, M. Ramsdell, J. Skufca, COMPASS: CoOrdinated Math-Physics Assessment for Student Success, MAA/NSF Poster Session, *2017 Joint Mathematics Meetings, American Mathematical Society*, Atlanta, GA, USA, January 4–7, 2017.

3. G. Yao, K. Liu, Z. Yu, Spatial-temporal calcium dynamics in ventricular myocytes using a parallel localized radial basis function collocation method, *The Fourth Conference on Computational and Mathematical Population Dynamics (CMPD4)*, North University of China, Taiyuan, China, May 29–June 2, 2013.

4. G. Yao, Localized method of approximate particular solutions for solving diffusion-reaction equations in two-dimensional space, *2013 SIAM Conference on Computational Science and Engineering*, Boston, MA, USA, February 25 – March 1, 2013.

5. G. Yao *et al*, Delaware MPI 2012 Report: Problem from Standard and Poor's, *Twenty-Eighth Annual Workshop on Mathematical Problems in Industry*, University of Delaware, Newark, DE, June 11–15, 2012.

6. G. Yao, Meshless solutions to PDE model for calcium signaling in ventricular myocytes, *The Society for Mathematical Biology Annual Meeting and Conference*, National Institute for Mathematical and Biological Synthesis (NIMBioS) and the University of Tennessee, Knoxville, Tennessee, USA, July 25–28, 2012.

7. G. Yao and J. Kolibal, Implementing the localized method of approximate particular solutions using a Schultz-Jones-Mayer algorithm, *2012 Joint Mathematics Meetings, American Mathematical Society*, Boston, MA, USA, January 4–7, 2012.

8. G. Yao, Localized method of approximate particular solutions for solving reaction-diffusion equations, *Fall Southeastern Section Meeting, Wake Forest University, American Mathematical Society*, Winston-Salem, NC, USA, September 24–25, 2011.

9. N. Wang, G. Yao, and Y. Li, A user interface missing value estimation for time-series microarray data, *The 2010 Mississippi EPSCoR Annual Meeting*, Jackson, USA, April 15, 2010.

10. G. Yao, S. Islam, C. S. Chen and B. Šarler, A Comparative study of global and local meshless methods for diffusion equations, *2010 International Conference on computational and Experimental Engineering and Sciences*, Las Vegas, USA, March 28–April 1, 2010.

11. G. Yao, S. Islam, C. S. Chen and B. Šarler, A Comparative study of global and local meshless methods for diffusion equations, *2010 Graduate Student Research Symposium*, Hattiesburg, USA, March 26, 2010. **Top Paper**

12. C. S. Chen and G. Yao, The localized method of approximate particular solutions, *5th International Conference on Computational & Experimental Engineering and Sciences, International Symposium on Meshless and Other Novel Computational Methods*, Ljubljana, Slovenia, August 31 – September 02, 2009.

13. G. Yao and C. S. Chen, The method of particular solutions for solving bi-harmonic equations with convection and reaction terms, *2009 Graduate Student Research Symposium (GSRS)*, Hattiesburg, USA, March 27, 2009. **Top Paper**

14. N. Wang, G. Yao, C. Y. Zhang and S. Bridges, Statistical measurements for increased confidence of a target-decoy search strategy, *The 2009 Mississippi Association of Family and Consumer Sciences (MAFCS) Annual Conference*, Jackson, USA, February 19 – 20, 2009.

## Professional Contributions

1. Conferences Organization:

   (a) 2017 Mathematics Conference and Competition of Northern New York (MCCNNY), Clarkson University, Tentative date: September 29-30, 2017, with Jie Sun, Joel Foisy, Jesse Clark-Stone, Blair Madore, and Daniel Look.

   (b) 2014 Mathematics Conference and Competition of Northern New York (MCCNNY), Clarkson University, February 28 and March 1, 2014, with Katie Fowler and Joel Foisy.

   (c) A David A Walsh's 67 Arts and Sciences Mini-Conference on Applied Statistics and Computational Mathematics, Clarkson University, October 18th, 2013, with Sumona Mondal.

   (d) New Jersey Undergraduate Mathematics Competition Organizing Committee, Garden State Undergraduate Math Conference, Raritan Valley Community College, Branchburg, New Jersey, March 31, 2012.

2. Journal Editorial Board:

   - International Journal of Novel Ideas: Mathematics. This is a peer-reviewed and open access international journal. (2014–present)
   - International Journal of Advances in Applied Sciences. This is a peer-reviewed and open access journal. (2014–present)

3. Technical Program Committees:

   - International Conference on Biomedical Engineering and Biotechnology, August 18–21, 2015, Shanghai, China.
   - International Conference on Biomedical Engineering and Biotechnology, September 25–28, 2014, Beijing, China.
   - International Workshop on Biotechnology, September 25–28, 2014, Beijing, China.

## Honors and Awards

- Outstanding Alumni, Harbin Normal University, 2016.
- Winner of University Doctoral Assistantship Competition, University of Southern Mississippi, 2009 – 2010.
- Innovation and Research Award, University of Southern Mississippi, 2010.
- Excellent Graduate Student in Heilongjiang Province, China, 2006.
- Outstanding Master Thesis, Harbin Normal University, 2006.
- Travel grants for the following conferences and workshops
  - ICERM Topical workshop on Localized Kernel-Based Meshless Methods for Partial Differential Equations, 2017.
  - SIAM Conference on Applied Mathematics Education, 2016.
  - SIAM Central States Annual Meeting, 2015.
  - The Six Montreal Industrial Problem Solving Workshop, The Centre de Recherches Mathematiques of the University of Montreal, 2015.

- The Fourth Conference on Computational and Mathematical Population Dynamics, 2013.
- SIAM Conference on Computational Science and Engineering, 2013.
- Mathematical Challenges in Biomolecular/Biomedical Imaging and Visualization, 2013.
- The Society for Mathematical Biology Annual Meeting and Conference, 2012.
- Mathematical Problems in Industry, The National Science Foundation and the Institute for Mathematics, 2012.

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## Teaching Experiences

**Clarkson University**

- MA131 Cal I, F2015, F2016, F2017.
- MA132 Cal II , S2016, S2017, S2018.
- MA232 Elementary Differential Equations, F2012, F2013, S2014, S2015, F2016.
- MA330 Advanced Engineering Math, S2015, F2015, S2016.
- MA377 Numerical Methods, F2017, Fall 2018
- MA531 PDE& BVP, F2012.
- MA571 Numerical DEs, F2012, F2016.
- MA725 Graduate Applied Math Seminar, F2016.

**Rowan University**

- MATH 01.130, Calculus I, F2011.
- MATH 03.125, Calculus Technologies and Applications, F2011.
- MATH 01.210 Calculus I, F2011.
- MATH 01.130, Calculus I, S2012.
- MATH 01.236, Mathematics for Engineering Analysis, S2012.

**Harbin University**

- Functional Analysis

**Harbin Normal University**

- Advanced Calculus

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## Grants and Sponsored Proposals

Funded Research Grants

1. Michael Ramsdell (Principal, 50%), G. Yao (Co-Principal, 50%), "COMPASS Co-Ordinated Math Physics Assessment for Student Success", Sponsored by National Science Foundation, Federal. Budget: $545,722. My share: $272,861. (January 1, 2015 - December 31, 2018).
2. Patrick Evans (PI, CDM Smith), Pamela Dugan (Co-PI, Carus Corporation), “Sustained In Situ Chemical Oxidation (ISCO) of 1,4-Dioxane Using Slow Release Chemical Oxidant Cylinders", Sponsored by Environmental Security Technology Certification Program (ESTCP), Department of Defense. Budget: $898,000. (2013–2016). My role: Key Personnel.

3. Wen Song (Principal), G. Yao (Senior personnel), Grant A200607: New Algorithms for Nonlinear Optimization Problems. Heilongjiang Provincial Natural Sciences Foundation (NSFC). As the name of the agency implies, this is a provincial grant from NSFC. Estimated Budget: $2000. (January 2007 – December 2008).
4. Yunhui Li (Principal), G. Yao (Participant), Grant HXKQ 200701: The Core Courses Foundation of Harbin University: Real Analysis. Harbin University. This is a grant from the core course developmental program offered by Harbin University. Estimated Budget: $1000. (January 2007 – December 2008)
5. G. Yao (Principal), Grant HXKQ 200703: Multi-objective Optimization Theory and Applications. Harbin University Subject Development Research (Young Investigator) Foundation. This is a grant from the young investigator developmental program offered by Harbin University. Estimated Budget: $1000 with no upper limit: plus $1000/SCI journal paper. (January 2007 – December 2009)
6. G. Yao (Principal), No.YJSCX 2005–39HLJ: Optimality Conditions and Homotopy Method on Multi-objective Optimization Problems. Sponsored by Graduate Innovation Science Research Program, Heilongjiang Provincial National Science Foundation of China (NSFC). This is a grant from the Graduate Innovation Science Research Program offered by provincial NSFC. Estimated Budget: $1000. (January 2005 – December 2007)

## Funded Conference Organization Grants

1. G. Yao, Joel Foisy, St. Lawrence Valley Mathematics Conference and Competition Conference Proposal, Associated Colleges of the St. Lawrence Valley Faculty Seminars and Academic Conference, St. Lawrence Valley, New York. Budget: $1200. (2013–2014).
2. Guangming Yao, Pi Mu Epsilon (PME) Conference Grant: 2017 Mathematics Conference and Competition of Northern New York (MCCNNY), Budget: $100.
3. Guangming Yao, Pi Mu Epsilon (PME) Student Prize Grant: 2017 Mathematics Conference and Competition of Northern New York (MCCNNY), Budget: $300.
4. G. Yao (Principal, 100%), "MAA Support for Math Conference at Clarkson University", Sponsored by Mathematical Association of America, Budget: $1600. (January 1, 2014 - April 30, 2014)
5. G. Yao (Principal), Kathleen R. Fowler (Co-Principal), Joel Foisy (Co-Principal), St. Lawrence Valley Mathematics Conference and Competition Conference Proposal, Faculty Seminar Program at the Associated Colleges of The St. Lawrence Valley. Associated Colleges, St. Lawrence Valley, New York. Budget: $1000. (2013–2014).
6. G. Yao (Principal, 50%), Sumona Mondal (Principal 50%) "David A Walsh's 67 Arts & Sciences Mini-Conference Grant Proposal A Mini-Conference on Applied Statistics and Computational Mathematics", School of Arts & Sciences, Clarkson University. Budget: $2000. (August 1, 2012 - September 1, 2013)