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## *Cos Fi*

School of Education  
Assistant Professor - Curriculum and Instruction  
Date of Hire: 2003  
5328 WEST MARKET, 61H, GREENSBORO, NC 27409  
[cdfi@uncg.edu](mailto:cdfi@uncg.edu)

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### **Professional Interests**

**Research:** Mathematics Education

**Teaching:** Mathematics Education

### **Academic Background**

Ph.D.	2003	The University of Iowa	Iowa City, Iowa	Mathematics Education
M.A.	1996	The University of Iowa	Iowa City, Iowa	Mathematics Education
B.S.	1994	The University of Iowa	Iowa City, Iowa	Mathematics

### **Certifications**

K-12 Mathematics Teaching - Iowa Standard Teaching, 1/31/2007

6-12 Mathematics Teaching - Illinois, 7/30/2005

6-9, 9-12 Mathematics Teaching – North Carolina, 2008

### **Memberships**

National Council of Teachers of Mathematics

Association of Mathematics Teacher Educators

American Education Research Association

North Carolina Council of Teachers of Mathematics

National Council of Supervisors of Mathematics (NCSM)

Benjamin Bannecker Association

American Mathematical Society

Association for Supervision and Curriculum Development (ASCD)

### **WORK EXPERIENCE**

#### **Courses Taught**

Graduate Independent Study (specialized masters)

Math in Elementary School (specialized masters)

Student Tch&Sem: Math (undergraduate)

Tch Pract & Curriculum in Math (specialized masters)

Teaching Problem Solving (specialized masters)

Technology in Mathematics Education (specialized masters)

Trends & Issues in CUI (specialized masters)

### **INTELLECTUAL CONTRIBUTIONS:**

#### **Refereed Articles**

Fi, C. (2005). Bite sized mathematics: The case of the radical. *Centroid*, 31 (2), 7-9.

Acceptance Date: 2005

## Non-Refereed Articles

Schoen, H. L., Cebulla, K. J., Finn, K. F., & Fi, C. (2003). Teacher variables that relate to student achievement when using a standards-based curriculum. *Journal is not in list - being petitioned*, 34 (3), 228-259.

## Book Chapters

### Refereed

Smith, M. S., Arbaugh, F., & Fi, C. (2006). Teachers, the school environment, and students: Influences on students' opportunities to learn mathematics in grades 4 and 8. In Peter Kloosterman and Frank K. Lester, Jr. (Eds.), *Results and interpretations of the 2003 mathematics assessment*. National Council of Teachers of Mathematics.  
Acceptance Date: 2005

## Presentation of Refereed Papers

### National

Fi, C. (2005, April). *Big ideas in preservice education of mathematics teachers: A focus on methods*. Presented at National Council of Teachers of Mathematics Annual Meeting and Exposition, Anaheim, CA.

Watanabe, T., Wang-Iverson, P., & Fi, C. (2005, January). *TIMSS: Videos improving teaching and learning*. Presented at Association of Mathematics Teacher Educators Annual Conference, Dallas, TX.

Fi, C. (2005, January). *Online high school mathematics methods course*. Presented at Association of Mathematics Teacher Educators Annual Conference, Dallas, TX.

Fi, C. (2004, April). *Preservice teachers' knowledge of trigonometry: Subject matter content knowledge, pedagogical content knowledge, and envisioned practice*. Presented at National Council of Teachers of Mathematics Annual Meeting and Exposition, Philadelphia, PA.

Schoen, H. L., Finn, K., Field, S., & Fi, C. (2001, April). *Teacher variables that relate to student achievement in a standards-oriented curriculum*. Presented at American Educational Research Association Annual Conference, Seattle, WA.

### Regional

Fi, C. (2004, April). *Transition to college mathematics*. Presented at Core-Plus Mathematics Users Conference, Milwaukee, WI.

Fi, C. (2003, February). *Preservice secondary mathematics teachers knowledge of trigonometry*. Presented at Iowa Council of Teachers of Mathematics, Ames, IA.

Fi, C. (2001, January). *PR and politics of reform mathematics*. Presented at Core Plus Mathematics Project LEADERS Workshop, Iowa City, IA.

### Local

McFadden, M., & Fi, C. (2005, October). *Teaching mathematics through problem solving*. Presented at North Carolina Council of Teachers of Mathematics, Greensboro, NC.

Fi, C. (2005, October). *TIMSS released videos: Improving teaching and learning*. Presented at North Carolina Council of Teachers of Mathematics, Greensboro, NC.

Fi, C. (2003, October). *Preservice teachers' knowledge of trigonometry*. Presented at UNCG School of Education Research Symposium, Greensboro, NC.

Fi, C. (2003, October). *Preservice teachers' knowledge of trigonometry*. Presented at North Carolina Council of Teachers of Mathematics, Greensboro, NC.

## Presentation of Non-Refereed Papers

### Regional

Fi, C. (2004, April). *Windows and mirrors*. Invited presentation at Core-Plus Mathematics Users Conference, Milwaukee, WI.

## **Local**

- Fi, C. (2005, October). *Addressing algebra – Teaching mathematics at the secondary level*. Invited presentation at North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Fi, C. (2004, October). *TIMSS video studies: Algebra course and TIMSS released videos*. Presented at North Carolina Council of Teachers of Mathematics, Greensboro, NC.

## **Research Grants**

### **Funded-External**

- 2003 - "Mathematics Education Specialist on NC QUEST Cycle III Grant," (\$ 135,000).
- 2003 - "Mathematics Education Specialist on NC QUEST Cycle II Grant," (\$ 267,285).
- 2003 - "Intel Innovations in Education TIMSS Facilitator Workshop Grant," (\$ 1,340).

### **Funded-Internal**

- 2005 - "STEPC," USTEP Grant, SOE, (\$ 6,000).

## **Dissertation**

Preservice secondary school mathematics teachers' knowledge of trigonometry: Subject matter content knowledge, pedagogical content knowledge and envisioned pedagogy

## **SERVICE:**

### **Service to the University**

#### **Departmental assignments:**

##### ***Faculty Advisor:***

2004-2005 through 2006-2007: Masters Advisors

##### ***Member:***

2003-2004 through 2004-2005: Faculty Search Committees

#### **College/School assignments:**

##### ***Member:***

2004-2005: Personnel Committee

2003-2004 through 2005-2006: Curriculum Committee

#### **University assignments:**

##### ***Faculty Advisor:***

2004-2005 through 2006-2007: Dissertation Committees

##### ***Member:***

2003-2004: SEAC - Secondary Education Advisory Council

2003-2004 through 2006-2007: CPC

#### **State-wide assignments:**

##### ***Administration:***

2003-2004 through 2006-2007: NC-MSEN: Associate Director of the Greensboro Area Mathematics and Science Education Center (GAMSEC); A constituent member of the North Carolina Mathematics and Science Education Network (NC-MSEN)

## **Service to the Profession**

### **Academic Conference: Moderator / Facilitator**

- 2005: International Mathematics Curriculum Conference, Sponsored by the Center for the Study of Mathematics Curriculum; held at University of Chicago, Chicago, Illinois November 11-13, 2005 (International).

**Member: Committee/Task Force**

2005-2007: The Mathematics into the 21st Century International Conference, Planning Committee; Conference scheduled for 2007 in Charlotte, NC. (International).  
2005-2006: AMTE Technology Committee (National).

**Officer: Organization / Association**

2005-2007: North Carolina Council of Teachers of Mathematics, Central Region Vice President for Colleges (Regional).

**Reviewer - Article / Manuscript**

2006: Journal for Research in Mathematics Education (National).  
2005: Teacher Education Quarterly (Action Research for Teacher Empowerment and Transformation) (National).

**Reviewer - Grant Proposal Related to Expertise**

2005: National Science Foundation (National).

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