

# Christopher Gomes

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## Education

- 2010–Present **PhD, Mathematics**, *University of Illinois*, Chicago.
- 2009–2010 **Graduate Study**, *Illinois Institute of Technology*, Chicago.
- 2001 **Postgraduate Certificate, Database Programming**, *Loyola University*, Chicago.
- 1992 **MA, Mathematics**, *University of Wisconsin*, Madison.
- 1987 **BA, Mathematics**, *University of Wisconsin*, Madison.

## Research Interests

Algebraic topology and group theory. In particular, stable homotopy theory, cohomology of finite groups, and their interactions.

## Experience

### Academic

- 2011–Present **Teaching Assistant**, *University of Illinois*, Chicago, IL.  
Lead discussion sections for large lecture courses
- 2009–2010 **Teaching Assistant**, *Illinois Institute of Technology*, Chicago, IL.  
Evaluated students for a wide variety of upper level mathematics courses including: Calculus, Complex Variables and Matrices for Engineers, Real Analysis, Introduction to Numerical Methods, and Complex Analysis. Proctored examinations for students in Probability and Statistics. Gave lectures and quizzes in undergraduate Real Analysis while professor was out of town.
- 2001–2006 **Adjunct Instructor/Tutor**, *Robert Morris College*, Chicago, IL.  
Taught three sections of Math 152: Quantitative Reasoning and Problem Solving. Tutored students in mathematics and computer science courses.
- 1995–1997 **Teacher**, *Peace Corps*, Kenya, East Africa.
- Taught mathematics and physics at an impoverished rural secondary school.
  - Supervised students' meals, study periods, maintenance duties, and extracurricular activities.
  - Managed boys' dormitory. Maintained discipline and welfare of students.
  - Created and developed laboratory demonstrations with minimal resources. Proctored laboratory exercises for the Kenya Certificate of Secondary Education examinations.
  - Intervened during medical emergencies. Negotiated with students during food strikes and de-escalated general students strike.
  - Established a mathematics and science club for students.
  - Coached boys and girls' cross-country and track and field teams.

- Instructed new Peace Corps trainees in mathematics topics unique to Kenyan schools. Facilitated orientation of Peace Corps trainees to life in Kenya. Supervised Peace Corps trainee's practice teaching.

1989–1992 **Teaching Assistant**, *University of Illinois*, Chicago, IL.

Gave lectures and led discussion sections for Calculus, Business Mathematics, Trigonometry, and College Algebra. Evaluated students in upper level and graduate level mathematics courses including: Linear Algebra, Combinatorics, Ordinary Differential Equations, Engineering Mathematics, Abstract Algebra, and graduate-level Algebraic Topology.

### Commercial

2009–Present **QA Tester**, *Freelance*, Chicago, IL.

Tested MyMathLab content for Pearson Math Media Group

2001–2009 **Content Developer**, *Pearson Math Media Group*, Glenview, IL.

Developed web-based content for college-level math test banks. Resolved sensitive customer support issues.

1998–2000 **Data Management Consultant**, *Innovative Alternatives*, Schaumburg, IL.

Maintained integrity of data from clinical trials for Abbott Laboratories.

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### Computer skills

Languages	Java, C++, Perl, SQL, HTML
Mathematical Tools	MATLAB, LaTeX