

Curriculum Vitae
Michael Kolta, Ph.D.
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EDUCATION

University at Albany, SUNY, Albany, NY

Ph.D. Computer Science, Minor: Computer Music, August 2009

- *Advisor*: Dr. Seth Chaiken
- *Area of Interest*: Artificial Intelligence/Music Information Retrieval
- *Dissertation*: "Machine Learned Melody Matching using Strictly Relative Musical Abstractions"

University at Albany, SUNY, Albany, NY

M.S. Computer Science, May 2007

- *Advisor*: Dr. Seth Chaiken
- *Area of Interest*: Artificial Intelligence
- *Master's Project*: Invented an original board game similar to chess and implemented an AI agent to play against a human user

Rensselaer Polytechnic Institute, Troy, NY

B.S. Industrial & Management Engineering, Minor: Electronic Arts, May 1998

- Dean's List and National Dean's List

PROFESSIONAL EXPERIENCE

2021 - present	Palm Beach Atlantic University , West Palm Beach, FL <i>Associate Professor of Computer Science</i>
2015 - 2021	California Baptist University , Riverside, CA <i>Assistant Professor of Computer Science</i>
2014 - 2015	Hudson Valley Community College , Troy, NY <i>Full Time Faculty – Computer Information Systems</i>
2014 - 2014	New York State Government , Albany, NY <i>Researcher for NYS Innovation Lab, CTO's Office</i>
2010 – 2013	Strayer University , Herndon, VA <i>Full Time Faculty – School of Information Systems</i>
2007 – 2015	Walden University , Minneapolis, MN Excelsior College , Albany, NY University at Albany, SUNY , Albany, NY <i>Adjunct Faculty</i>
2008 – 2009	The College of St. Rose , Albany, NY <i>Visiting Professor of Computer Science</i>
2001 – 2003	Marist College , Poughkeepsie, NY Dutchess Community College , Poughkeepsie, NY
2000 – 2001	CNN International , Atlanta, GA <i>Computer Animator/Multimedia Engineer for Design Team</i>
1998 – 2000	Autodesk Inc. , Henniker, NH <i>Software Test Development Engineer for Raster Design</i>

TEACHING EXPERIENCE

Palm Beach Atlantic University, West Palm Beach, FL, 2021 - present

Associate Professor of Computer Science

- Teach in classroom and online
- Assisting in the redesign and growth of the undergrad and grad Computer Science program
- Master's and undergraduate courses in Computer Science
- Intro to Computer Science, Programming in Python, C++, Java, Artificial Intelligence with Python, Advanced Programming Languages, Software Engineering, Computer Graphics with OpenGL

California Baptist University, Riverside, CA, 2015 – 2021

Assistant Professor of Computer Science

- Teach in classroom, serve on committees
- Programming in C++, Artificial Intelligence with Python, Software Engineering with Java/JUnit, Database, Computer Graphics, Software Quality Assurance with Java, and Mobile App Development with Android

Hudson Valley Community College, Troy, NY, 2014 – 2015

Full Time Faculty – Computer Information Systems

- Teach in classroom, online, and hybrid courses
- Topics in Programming and Logic using Java and Object-Oriented Programming Concepts

Strayer University, Herndon, VA, 2010 - 2013

Full Time Faculty (online) – School of Information Systems

- Develop new courses for use across entire university: Introduction to Programming (Visual Logic) and two Object Oriented Programming (Java, intermediate and advanced)
- Teach online courses in an asynchronous environment: Systems Analysis and Development, Enterprise Architecture, Directed Research Project (Master's capstone project), Programming in C++, Java Programming, Computer Program Design
- Train other instructors in the use of online course content delivery software and andragogy
- Lead live online tutoring for students and other faculty

Program/Discipline Lead, 2011 - 2013

- Assist the Dean in coordination of educational initiatives, including researching of new educational technology and communicating with course lead faculty

Walden University, Minneapolis, MN, 2009 – 2014

Contributing Faculty (online)

- Develop new courses for use across entire university: Web Programming (HTML, JavaScript), and two Object Oriented Programming (Java, intermediate and advanced)
- Teach several online courses in an asynchronous environment in topics such as Database Management Systems, Information Systems, Information Technology, Object Oriented Programming, Operating Systems, and others

Lead Faculty, 2009 - 2014

- Review faculty performance using standardized metrics

Excelsior College, Albany, NY, 2008 – 2014 (approx. 2 courses/year)

Course Writer / Adjunct Instructor (online)

- Develop new online courses for use across entire university in topics such as Introduction to Multimedia and Operating Systems

- Teach several online courses in an asynchronous environment in topics such as Python programming, multimedia, Object Oriented Programming, Web Programming and others

University at Albany, SUNY, Albany, NY, 2003 – present (approx. 2 courses/year)

Creator and Instructor - Web Programming I (online), 2007 – 2014

- Develop the first fully online course for the Computer Science Department
- Lectures are a mixture of pre-recorded audio files with images and text
- *Topics:* the Internet, HTML, Cascading Style Sheets, and JavaScript
- *Responsibilities:* preparing syllabus and tests, pre-recording the lectures, answering students' questions via virtual office hours, preparing assignments, preparing online material, and grading all assignments and tests

Adjunct Instructor (in classroom) - Enterprise-Wide Application Development, 2008 – 2009

- 600 level graduate course, part of MBA program
- Students design and build their own online business including a business plan and functional website
- Present final product to industry representative
- *Topics:* database tier design, Java/J2EE, JDBC, security, XML
- *Responsibilities:* delivering lectures, assisting students in computer lab, and grading

Adjunct Instructor (in classroom) - Special Topics in Information Technology, 2008

- 600 level graduate course, part of MBA program
- Students learn Java Programming and SQL
- Apply these skills to Data Mining for Business Applications
- *Topics:* database theory, Java, SQL
- *Responsibilities:* preparing and delivering lectures, assisting students in computer lab, and grading assignments

Instructor (in classroom) - Elements of Computing, 2004 - 2008

- Manage up to 6 Teaching Assistants with average enrollment of 200 students
- *Topics:* history of computers, computer hardware, number conversion, and programming in Visual Basic
- *Programming Topics:* Graphical User Interfaces, variables, arrays, loops, procedures, functions, file input and output, threading, and sorting
- *Internet Topics:* HTML, multimedia, and security
- *Responsibilities:* preparing syllabus and tests, lecturing, answering students' questions, preparing assignments, preparing online material, and overseeing all grading

Graduate Teaching Assistant - Computer Music, 2005 - 2006

- Maintain media lab equipment
- Provide assistance to students in learning how to use lab equipment and complete assignments

Graduate Teaching Assistant - Discrete Math, 2003 - 2004

- *Responsibilities:* running discussion sections, holding office hours, and grading homework

The College of St. Rose, Albany, NY, 2008 - 2009

Visiting Professor of Computer Science

- Taught 4 in classroom courses per semester in topics such as the history of computers, hardware, and programming in Visual Basic and programming with Alice
- *Programming Topics:* Graphical User Interfaces, variables, arrays, loops, procedures, functions, file input and output, threading, and sorting

- *Internet Topics:* HTML, multimedia, and security
- *Responsibilities:* preparing syllabus and tests, lecturing, answering students' questions, preparing assignments, preparing online material, and grading of all assignments and tests

Marist College, Poughkeepsie, NY, 2001 - 2003

Adjunct Instructor – Web Programming

- Taught 3 sections: 2 in classroom and 1 online
- Created new online version of this Web Programming course including audio recordings and web-based presentations
- Online course enrollment consisted of working professionals at IBM
- Created another version of this online course for high school students to contain simpler material and more multimedia content

Adjunct Instructor (in classroom) – Introduction to the Internet

- Taught 3 three sections covering the basics of Internet technology and HTML
- Instructed students in building their own websites

Dutchess Community College, Poughkeepsie, NY, 2001-2003

Adjunct Instructor (in classroom) – Physics

- Taught two sections and enrollment consisted of working professionals at Verizon
- Introduced 'Gadget of the Day' to relate course material to current technology
- *Topics:* Kinetics, Electricity and Magnetism

Adjunct Instructor (in classroom) - Applications in Interactive Computing

- Enrollment consisted of working professionals at IBM
- Instructed students in using Visual Basic to solve engineering problems
- *Topics:* decisions, repetition, arrays, functions and object linking and embedding

Adjunct Instructor (in classroom) - Computer Information Systems

- Taught two sections covering the basics of computer software and hardware terminology
- Instructed students in using office software

Adjunct Instructor (in classroom) - Digital Electronics II

- Enrollment consisted of working professionals at Verizon
- Introduced group project investigating current computer technology and build a 'business'

PROFESSIONAL PRESENTATIONS

Calvin University, Grand Rapids, MI, May, 2026

- [Association of Christians in the Mathematical Sciences conference](#)
- Solo presentation: Christian Ethics in Computers, Software, and Artificial Intelligence
- Co-presenter: Ethical Use of LLMs: Existence? Strategies?

Christian Business Men's Connection (CBMC), Boca Raton, FL, May 2026

- [Interview focusing on my career and my book](#)
- Christian Ethics in Computers, Software, and Artificial Intelligence

Palm Beach Atlantic University, West Palm Beach, FL, March 2026

- [Interdisciplinary Research Conference](#)
- Trinitarian Education in the Digital Age

Palm Beach Atlantic University, West Palm Beach, FL, February 2026

- [Book Club](#)
- Christian Ethics in Computers, Software, and Artificial Intelligence

Palm Beach Atlantic University, West Palm Beach, FL, January 2026

- [Provost's Day AI Ethics Panel](#)

The King's Academy, West Palm Beach, FL, November, 2025

- [AI in Education: Maximizing the Learning Experience](#)

Lee University, Cleveland, TN, October 2025

- Christian Business Faculty Association Conference
- AI Ethics discussion panel: [The Challenges of Developing Learner-Centric Critical Thinking while Maintaining Moral Autonomy](#)

WatchEthics.TV Podcast Appearance, July, 2025

- [Interview with global thought-leader Jonathan MacDonald](#)

Palm Beach Atlantic University, West Palm Beach, FL, March 2024, 2025

- Interdisciplinary Research Conference
- Christian Ethics in Computers, Software, and Artificial Intelligence

Dordt University, Sioux Center, IA, May, 2024

- Association of Christians in the Mathematical Sciences conference
- Christian Ethics in Computers, Software, and Artificial Intelligence

Texas Instruments, Arlington, TX, February 2024

- T3IC, Teachers Teaching with Technology International Conference
- Rockin' Rover - Using the TI-Innovator Rover to Turn Color Into Music

Palm Beach Atlantic University, West Palm Beach, FL, September 2023

- Series on Artificial Intelligence in Education
- Ways to use AI to maximize the educational experience

University at Albany, SUNY, Albany, NY, March 2008

- Sharing Knowledge, Insights and Lessons Learned (SKILL) Conference
- Presented learning tool entitled "Gadget of the Day"
- Discussed real world technology in the classroom showing applications of the CS concepts presented in class

University at Albany, SUNY, Albany, NY, April 2007 and 2008

- New Trends in Informatics Research Conference
- Presented progress on research for dissertation entitled "Melody Matching using Strictly Relative Musical Abstractions"

PUBLICATIONS

- 1) Paper: Trinitarian Education in the Digital Age. (accepted, pending) [Diligentia: Journal of Theology and Christian Education](#), Vol. 8, No. 3, September 2026 (co-author)
- 2) Paper: [Rockin' Rover on the Rainbow Road](#). Transformations, Nova Southeastern University, August, 2026
- 3) Article: [You use AI more than you think. Here's why that matters](#). With foreword from Dr. Debra Schwinn. Good News of South Florida and [Palm Beach Atlantic University News](#), Palm Beach Atlantic University, August 2026
- 4) Book: [Christian Ethics in Computers, Software, and Artificial Intelligence](#). Kendall Hunt. Kolta, M. (2025)
- 5) Article: [Intellectual Fraud in the Age of Artificial Intelligence](#). The Quill, Palm Beach Atlantic University, Dec 2024
- 6) **US Patent Office**, Alexandria, VA, June 2011
[Patent: # 7,962,530](#)
 - Title: "Method for locating information in a musical database using a fragment of a melody"

- Based on doctoral dissertation research
- 7) **University at Albany, SUNY, Albany, NY, August 2009**
Dissertation: "Machine Learned Melody Matching using Strictly Relative Musical Abstractions"
- Utilizes fuzzy logic and DNA matching technologies to find approximate melodic matches for imperfect queries
 - Interdisciplinary combination of Music Information Retrieval, Bioinformatics, Computer Science, and the sub-field of Machine Learning

INDUSTRY EXPERIENCE

New York State Government, Albany, NY, 2014

Researcher for NYS Innovation Lab, CTO's office

- Investigate new technologies and entrepreneurial ventures
- Enable and direct collaboration between industry, education, and state government
- Administrate GitHub account
- Optimize IT usage via Enterprise Architecture
- Write and debug Java code for NYS Tax department

CNN International, Atlanta, GA, 2000 - 2001

Computer Animator/Multimedia Engineer for Design Team

- Created 3D animated graphics for worldwide television news enhancement
- Wrote Visual Basic scripts to query the Reuters feed, then update and activate the graphics in real time
- Implemented graphic and audio environments for both television and the Internet
- Composed music for promotional materials
- Built tutorial websites to assist new employees in the use of an automated graphics system
- Compressed multimedia for Internet streaming

Autodesk Inc., Henniker, NH, 1998 – 2000

Software Test Development Engineer for Raster Design

- Developed scripts and test plans for quality assurance purposes
- Employed various methods including the creation and implementation of automated tests using SilkTest

COMPUTER SKILLS

Languages: Java – wrote prototype for doctoral dissertation research which consists of a working prototype that identifies a tune by melody that is created by the user such as via humming or singing. This has earned a [software patent, # 7,962,530](#).

Master's project which consisted of an original board game controlled by an AI agent also used Java. Java EE and SQL – used to teach Enterprise-Wide Application Development
 Python, C++, C, JavaScript, VB Script, Visual Logic and HTML taught in several courses

Applications:

- *2-D Graphics:* Adobe Photoshop, CAD Overlay
- *3-D Graphics:* AutoCAD, Pro-Engineer, frost
- *Audio:* Sonar, Pro-Tools, Korg Triton Music Workstation
- *Automation:* SilkTest, SQA Robot
- *Simulation:* Maple, SAS, Lindo, Matlab, Arena

MEMBERSHIP AND LEADERSHIP

Memberships

- The Association of Christians in the Mathematical Sciences (ACMS)
- International Symposium of Music Information Retrieval (ISMIR) – Lifetime
- Engineering Honor Society (TBII) – Lifetime
- Industrial Engineering Honor Society (AIIM) – Lifetime
- Institute of Industrial Engineers (IIE) – Lifetime

Leadership

- Chair of Academic Technology Committee (ATC) at Palm Beach Atlantic University
- Lead Faculty at Walden University
- Program/Discipline Lead at Strayer University