Resume of Glenn Simonelli

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Education/Certification:

Doctor of Education, Indiana University School of Education, Department of Curriculum and Instruction, Science Education. Dissertation: *A Validation Study of the Fifth Grade Science ISTEP+ Test.*

Master of Science, Indiana University Department of Geological Sciences. Thesis: *Sedimentology and Geochemistry of the Mansfield Formation, Martin County, Indiana*

Master of Science, Elementary Certification/Graduate Program at Indiana University. Thesis: *Using Expository Writing to Foster Mathematical Problem-Solving Skills.*

Bachelor of Arts graduated with honors from Indiana University, in telecommunications with an emphasis on audio/video production and a minor in music composition.

Indiana Multiple Subject Professional Teaching License (grades 1-8), science endorsement (grades 1-9), gifted and talented endorsement (grades 1-9).

New York Professional Teaching License (grades 1-6), with gifted and talented extension.

New York State Certification Tests:

NYSTCE - Liberal Arts and Sciences Test (LAST) (001)
NYSTCE - Multi-Subject CST (002)
NYSTCE - Elementary ATS-W (090)
NYSTCE - Gifted Education CST (064)
NYSTCE - Earth Science CST (008)
NYSTCE - Biology CST (006)

Professional Experiences: Teaching:

Fall, 2016 to Present – Science and engineering coordinator, The Leffell (Lower) School, White Plains, NY.
Designed and implemented the elementary science and engineering programs.
Collaborated with teachers in other disciplines to bring hands-on exploratory learning into other subject areas.
Classes taught: grades 3-5, Science and Engineering

Fall, 2011 to Spring 2016 – **Science Teacher,** The Dalton School, New York City, NY
Class taught:
4th grade science
5th grade science
Coach: 6th & 7th grade robotics team

Fall, 2007 to Spring, 2011 – **Assistant professor,** State University of New York (SUNY), Potsdam, NY.
Classes taught:
EDUC 408: Practicum II;
EDUC 409: Elementary Science Methods;
EDUC 415: Student Teaching Internship I;
EDUC 416: Student Teaching Internship II;
GRED 566: Elementary Science Content and Methods.

Professional Experiences: Teaching, continued:

Fall, 2006 to Spring, 2007 – **Visiting professor**, Franklin College, Franklin. Indiana.
Classes taught:
SCI 344: Science and Elementary Teaching, pt. 1;
SCI 345: Science and Elementary Teaching, pt. 2;
EDE 384: Field Experience in Elementary Education;
EDE 445: Advanced Educational Technology;
EDE 457: Assessment and Evaluation Methods in the Elementary Classroom.

Fall 2003 to Summer 2006 – **Associate instructor,** Indiana University, Bloomington, IN
Classes taught:
E328: Science in the Elementary School;
S105: The Search for Habitable Planets;
G103: Earth Science Materials and Processes, lab;
G105: Earth, Our Habitable Planet, lab.

Fall 1997 to Summer 2002- **Elementary teacher**, grades 4 - 6. Lakeview School, Bloomington, IN.

Developed many innovative curricular and pedagogical materials, including Disaster at Lake Nyos and Like Dawn at Midnight, two role-playing, hands-on science investigations, and the Snarkle Economy, a mathematics-based classroom economy designed to promote mastery of integer, decimal and percent concepts.

Spring 1997 - **Elementary teacher**, grades 3 and 4. Harmony School, Bloomington, IN.

Visiting position in a diverse, multi-age classroom. Developed an individualized mathematics curriculum for the class that allowed students to progress at their own pace. Created written problem-solving exercises to teach beginning algebra. Developed and taught units in beginning physics, 3-dimensional geometric construction, and 2-dimensional geometric art. Initiated Comet Day to coincide with the appearance of comet Halle-Bop.

Other Professional Experiences:

January 2005 – **Educational consultant and scriptwriter**, NASA Astrobiology Institute (NAI), Bloomington, IN.

Advised and assisted in the production of an educational DVD for high school biology classrooms based on the work of the Indiana-Princeton-Tennessee Astrobiology Initiative (IPTAI). IPTAI collects deep sub-surface organisms and analyzes their potential as analogues for life on Mars. Aligned the DVD content with state and national science educational guidelines, wrote the final production script and accompanying curricular materials for classroom use.

Spring 1997 - **Technical assistant**, distance learning. Indiana University, Bloomington, IN.

Assistant in a graduate-level science methods class for elementary teachers. Taught a Project Wild class on evolutionary adaptation to groups of elementary teachers at three different sites simultaneously via distance learning technology.

Other Professional Experiences, continued:

Fall 1996 - **Field researcher**, math education, Research In Teacher Education. Indiana University and Lakeview School, Bloomington, IN.

Worked with the teachers at a public elementary school to facilitate change in their mathematics curricula. Collected data for a university professor researching the process of reforming mathematics curricula. Helped support graduate students having practicum experiences at the school.

August 1994 - June 1995 - **Connected Math Project**. Indiana University, Bloomington, IN.

Part of a team responsible for the assessment of a new, middle-school-level mathematics program funded by the **National Science Foundation**. Collected, condensed and reported data received from elementary and middle school teachers field-testing the program.

January 1991 - August 1994 - **Creative Audio Enterprises (CAE, Inc.)**, Bloomington, IN.

General manager for an audio production facility and recording studio. Responsibilities included the general supervision of operations, including office and financial management, inventory control and purchasing, bookkeeping, payroll and payroll taxes. Other responsibilities included tape re-mastering and duplication, composing and producing musical "jingles" for radio and television, writing and producing radio advertising, and audio engineering.

August 1984 - August 1989 - **Indiana University Archives of Traditional Music (IUATM)**, Bloomington, IN.

Technical specialist for one of the largest recorded sound archives in the United States. Responsibilities included the audio preservation of recorded materials and the maintenance of the audio labs and equipment. Helped design and install an international video and two audio laboratories, and supervised the audio transfer and preservation work of the graduate students employed by the archives. Returned to the IUATM in the summer of 1995 to fill a temporary opening in the same position.

Publications, Books:

Simonelli, G., and Ingersoll, G. *A Validation Study of Standardized Elementary Science Test Scores: Scores of the Indiana Statewide Testing for Educational Progress-Plus.* Köln, Germany: Lambert Academic Publishing, 2008.

Publications, Peer Reviewed:

Print:

Simonelli, G., Johnson, C. C., Elswick, E. R., and Kauffman, E. G. *Sedimentation and Geochemistry of the Mansfield Formation in Martin County, Indiana.* North-Central Geological Society of America Abstracts with Programs, V. 38, no. 4. P. 4.

Helping Your Students Colonize the Solar System, in The Hoosier Science Teacher, Spring, 2004.

Publications, Peer Reviewed, continued:
Electronic, continued:
Modeling the Motions of the Earth, Sun and Moon, in Practical Uses of Math and Science (PUMAS). Document #03_10_04_1, accepted June, 2004. Available: http://pumas.jpl.nasa.gov/examples/layout.asp?Document_Id=03_10_04_1

The Cause of the Phases of the Moon, in Practical Uses of Math and Science (PUMAS). Document #03_10_04_2, accepted June, 2004. Available: http://pumas.jpl.nasa.gov/examples/layout.asp?Document_Id=03_10_04_2

The Cause of the Earth's Seasons, in Practical Uses of Math and Science (PUMAS). Document #03_10_04_3, accepted June, 2004. Available: http://pumas.jpl.nasa.gov/examples/layout.asp?Document_Id=03_10_04_2

The Mathematical Implications of Lying, in Practical Uses of Math and Science (PUMAS). Document #12_04_02_1, accepted February, 2003. Available: http://pumas.jpl.nasa.gov/examples/layout.asp?Document_Id=12_04_02_1

The Rubber Band Problem, in Practical Uses of Math and Science (PUMAS). Document #01_13_03_1, accepted May, 2003. Available: http://pumas.jpl.nasa.gov/examples/layout.asp?Document_Id=01_13_03_1

Publications, Other:
Print:
Retrieving the Orson Welles' Radio Broadcasts, in Resound: A Quarterly of the Archives of Traditional Music, Volume 8, Number 2, April, 1989.

Presentations:
Workshops:
Exploring the Dark Universe. Co-developer and co-presenter of a hands-on workshop about dark energy and dark matter for middle and high school science teachers, Bloomington, IN, August
2007.

Astrobiology and the Search for Life in Space. Co-developer and co-presenter of a hands-on workshop in astrobiology for middle and high school science teachers, Bloomington, IN, June,
2006.

The Universe in the Infrared. Co-developer and co-presenter of a hands-on workshop in infrared astronomy for high school science teachers, Bloomington, IN, August 2005.

Hands-on Discovery-Based Science. Developed and presented an inquiry science workshop for elementary teachers, Bloomington, IN, October 2004.

Presentations, continued:

Electronic:

Life in Space: An Astronomy/Astrobiology Unit for Upper Elementary and Middle School Students. Available: http://www.astro.indiana.edu/~gsimonel

First-Year College Students' Ideas about Astronomy: A Pilot Study, in Astronomy Education Review. Available: http://aer.noao.edu/AERArticle.php?issue=4&section=5&article=2

Papers:

Sedimentology and Geochemistry of the Mansfield Formation in Martin County, Indiana, presented at the Geological Society of America North-Central Meeting, Akron, OH, April, 2006.

Assessing Student Ideas of Astronomy, presented at the Association of Elementary Science Teachers Convention, Nashville, TN, January 2004.

Helping Your Students Colonize the Solar System, presented at the Hoosier Association of Science Teachers, Inc. (HASTI) Convention, Indianapolis, IN, February 2003.

Posters:

Two Web Tools for College Astronomy Instruction, (co-author) presented at the Indiana Partnership for Statewide Education (IPSE) All Partners Conference, Indianapolis, April 2005.

Imaging the Deep Sub-Surface, (co-author) presented at the NASA Astrobiology Conference, Boulder, Coloroado, April 2005.

Life in Space: An Astronomy/Astrobiology Unit for Middle Grade Students, presented at the Bioastronomy, 2004: Habitable Words Conference, Reykjavik, Iceland, July 2004.

Other:

(Lessons from) Build Your Own Planet. Presented at Colton-Pierrepont High School, Colton, NY, November, 2009.

*Astrobiology and the Darwinian Threshold.*Presented at Potsdam High School, Potsdam, NY, June, 2009.

Astrobiology: Is there anybody out there? Presented at Higley Flow State Park, South Colton, NY, July, 2008.

When Did Astrobiology Become Respectable? Presented at Family Star Night, Eastern Greene County Elementary School, Greene County, IN, January 2006.

Get Your Hands-On Science with Saturday Science QUEST for Kids Program, presented at the National Science Teachers Association (NSTA) regional convention, Chicago, IL, November 2005.

Presentations, continued:

Life in Space: An Astronomy/Astrobiology Unit for Middle Grade Students, presented at the NSTA national convention, Dallas, TX, April 2005.

Build Your Own Planet: An Astrobiology Unit for Upper Elementary and Middle School Students, presented at the HASTI convention, Indianapolis, IN, February 2005.

Grants/Awards Received:

Indiana SpaceGrant Consortium April 2006. **Geological Society of America** travel grant, April 2006. **Indiana Professional Geologists** research grant, January 2006.
LAPLACE Winter School participant, January 2006.
NASA Earth Science Education Roadmap Community travel grant, May, 2005.
NASA Astrobiology Institute (NAI)

Scholarship and travel grant to:
Josep Comas i Sola International Summer School in Astrobiology, Santander, Spain, July, 2006.
Travel grants to:
NASA Astrobiology Conference, Boulder, Colorado, April 2005.
Bioastronomy, 2004: Habitable Worlds Conference, Reykjavik, Iceland, July 2004.

Chancellor's Fellowship, Indiana University, August 2002 to May, 2006.
NASA EPO supplement to NAG5-11964 Durisen research grant, August 2002 to June 2005.
NFS Research Experiences for Teachers (RET), June 2002 to August 2002.

Other Accomplishments:

Event coordinator and judge for the **National Science Olympiad**, Potsdam, NY, multiple times.
Judge for the **First Robotics Competition**, Potsdam, NY.
Member of the Potsdam Local Waterfront Redevelopment Project Advisory Committee, Potsdam, NY.
Big Brothers Big Sisters of the North Country, Watertown, NY.
Member of the NASA Earth Science Education Roadmap Community responsible for drafting NASA's 10-year plan for Earth Science educational outreach.
Helped students prepare presentations for and presented speech "When did astrobiologists become respectable?" at local elementary school "Astronomy Night"
Developed and presented a series of discovery-based geology lessons culminating in a geology merit badge during a week-end jamboree of regional Boy Scout troops.
Developed and presented a series of hands-on physics lessons to local Cub Scout troop.
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Event coordinator and judge for the **National Science Olympiad**, national finals, held at Indiana University, Bloomington, IN, multiple times.
Former Court Appointed Special Advocate (CASA) for Monroe County, IN.
Former member of the Rural Community Advisory Committee for Monroe County, IN.