

# LINDA CHIU ROURKE

John Jay College of Criminal Justice  
New York, NY 10019

(111) 352-1111  
H: 352-1111

## PROFESSIONAL EXPERIENCE

- Sep. 06 – present      **John Jay College of Criminal Justice, New York, NY**  
**Lecturer of Criminalistics**  
Teach 300, 400 & 700 level lecture courses in Criminalistics for Forensic Science majors, and 400 & 700 level Forensic Science laboratory courses; teach 100 level forensic science lecture course for non-science majors; taught 700 level Thesis Prospectus Seminars; advise graduate level thesis research; coordinated the annual Forensic Science Graduate Student Poster Symposium; member of Science Department Outcomes Assessment Committee, Science Department Curriculum Committee, Forensic Science Graduate Program Curriculum Committee.  
Science Department Chairperson: Lawrence Kobilinsky, Ph.D.
- Sep. 99 – Sep. 02      **Substitute Instructor of Criminalistics**  
Taught Advanced Criminalistics Laboratory courses (400 and 700 levels); managed Advanced Criminalistics Laboratory, supervised instructional and technical staff, developed and taught Crime Scene Investigation graduate seminar (800 level) and undergraduate "Introduction to Criminalistics for Forensic Science Majors" lecture/lab (300 level); taught "Concepts of Forensic Science" lecture and lab (100 level) courses. Advised graduate students in thesis research and mentored adjunct lecturers in teaching. Assisted in evaluating applications to the Forensic Science graduate program.  
Science Department Chairperson: Selman Berger, Ph.D.
- Oct. 99 - present      **Forensic Consultants, Ardsley, NY**  
**Consultant**  
Trace evidence analysis: analysis of fingerprints, footwear imprints, bullet trajectories, glass, hairs and fibers; testing for blood, semen, gunshot residue; evidence and crime scene photography.  
Supervisor: Peter R. De Forest, D. Crim.
- Jul. 98 to present      **Forensic Science Education Consultant**  
Conduct forensic educational programs for grades 4-12 students as well as teacher training workshops for elementary to high school level teachers. Provide consultation in high school forensic science curriculum development.
- Nov. 01 to Jan. 05      Forensic Consultant to the Law Enforcement Academy Justice Resource Center of the NYC Department of Education: conduct teacher training workshops.
- Jan. 98 - Aug. 99      **State University of New York, College of Technology at Farmingdale, NY**  
**Assistant Professor**  
Taught undergraduate Criminalistics, Criminal Investigation, Law Enforcement Administration (200 level) lectures; developed and taught Access Control Systems (300 level) course; faculty responsibilities included course & curriculum development, transfer credit evaluations, and academic advisement for Criminal Justice students.  
Department Chairperson: John Kostanoski
- Sep. 94 - Dec. 97      **John Jay College of Criminal Justice, New York, NY**  
**Adjunct Lecturer/Laboratory Instructor**  
Taught undergraduate "Concepts of Forensic Science" lecture (100 level); provided academic and technical support to undergraduate and graduate level students in "Advanced Criminalistics Laboratory" (300 and 700 levels); taught undergraduate lecture/lab "Survey of Criminalistics" (200 level) and undergraduate Natural Science laboratory (100 level) courses.  
Science Department Chairperson: Selman Berger, Ph.D.

**PROFESSIONAL EXPERIENCE (continued)**

- Oct. 93 - Jun 94  
Oct. 91 - Oct. 93
- The Picower Institute for Medical Research**, Manhasset, NY  
**Senior Research Technician**  
**Research Technician**  
Projects included the sequencing of mutational inserts resulting from treatment of DNA with reactive glucose derivatives, characterization of human fibrocyte cells, ELISA epitope scanning of selected protein sequences, and development of a PCR assay for the *Pneumocystis carinii* parasite. Responsibilities included training new personnel in technical procedures and supervision of summer students.  
Supervisor: Richard Bucala, M.D., Ph.D., Senior Member
- Sep. 89 - Oct. 91
- Rockefeller University**, New York, NY  
**Research Technician**  
Studied the role of advanced glycosylation endproducts in DNA mutagenesis.  
Supervisor: Richard Bucala, M.D., Ph.D., Assistant Professor
- Sep.88 - May 89
- University of PA School of Medicine**, Pharmacology Department, Philadelphia, PA  
**Research Assistant**  
Worked on neurological experiments studying amino acid transport in rat brain synaptosomes via HPLC assay.  
Supervisor: Maria Erecinska, M.D., Professor
- Jan. 87 to Jan. 88
- Zeta-Meter, Inc.**, Long Island City, NY  
**Computer Programmer/Research Assistant**  
Developed and programmed a computerized company database to organize customer and product files; performed laboratory analyses using company product; tested new experimental equipment to assess functionality and accuracy.  
Supervisor: Louis Ravina, President

**EDUCATION**

- 2003 to 2008  
1993 to 2003
- Ph.D. Candidate, **The Graduate Center, CUNY**, New York, NY  
Criminal Justice Doctoral Program, Forensic Science Concentration  
Courses taken include: Advanced Criminalistics, Advanced Forensic Instrumentation, Chemical Separations, Analytical Spectroscopy, Scientific Firearms Examination, Forensic Medicine, Forensic Geology, Electron Microscopy, X-Ray Crystal Structure Analysis, Biostatistics, Molecular Genetics.  
GPA: 3.91
- Feb. 2004
- M.S. in Forensic Science, **John Jay College of Criminal Justice**, New York, NY
- Feb. 2003
- M.Phil. in Criminal Justice, **The Graduate Center, CUNY**, New York, NY
- May 1989
- B.A. in Biochemistry, **University of Pennsylvania**, Philadelphia, PA
- 1984 to 1987
- Chemical Engineering Program, **The Cooper Union for the Advancement of Science and Art**, New York, NY
- 1980 to 1984
- New York High School Regents Diploma, **Stuyvesant High School**, New York, NY

**HONORS**

Sixth Annual Emerging Forensic Scientist Award, 2006, American Academy of Forensic Sciences  
Scholarly Achievement Award, 2006, Criminal Justice Doctoral Program, The Graduate Center, CUNY  
Scholarly Achievement Award, 2005, Criminal Justice Doctoral Program, The Graduate Center, CUNY  
George W. Neighbor Jr. Memorial Scholarship Award, 2000, Northeastern Association of Forensic Scientists  
Distinction in Biochemistry, 1989, University of Pennsylvania  
Magna Cum Laude, 1989, University of Pennsylvania  
New York State Regents Scholarship, 1984 to 1987  
Full Tuition Scholarship, The Cooper Union, 1984 to 1987  
Dean's List, 2 semesters, The Cooper Union

**ACADEMIC RESEARCH**

Feb. 05 to 06                 DNA analysis for biogeographical ancestry, The Feinstein Institute for Medical Research, Manhasset, NY.

Sep. 03 to Sep. 05         Application of whole genome amplification by multiple displacement amplification to aged dried stains, North Shore/Long Island Jewish Research Institute, Manhasset, NY.

Sep. 98 to May 99         Validation of mitochondrial DNA sequencing as a means of identifying the origin of biological evidence, OCME Biology Laboratory, New York, NY.

Jan. 95 to Nov. 95         Exploring the detection of gunshot residue using low temperature fluorescence of chloride ion complexes produced by the application of dilute hydrochloric acid, Yonkers Forensic Science Laboratory, Yonkers, NY.

**PUBLICATIONS**

Gershaw, C.J., Schweighardt, A.J., Rourke, L.C., Wallace, M.A. Forensic utilization of familial searches in DNA databases, *Forensic Science International: Genetics*, 5, pp.16-20 [January 2011].

De Forest, P.R., **Rourke, L.C.**, Pizzola, P.A., Direct Detection of Gunshot Residue on Target: Fine Lead Cloud Deposit, *Journal of Forensic Identification*, Vol. 58(2), pp.265-276 [March/April 2008].

Technical Working Group on Education and Training in Forensic Science, sponsored by West Virginia University and the National Institute of Justice. **Proxy member**: Qualifications, Processional Orientation, Expectations, Pre-Screening & Credentialing Group, *Education and Training in Forensic Science: A Guide For Forensic Science Laboratories, Educational Institutions, and Students*, *NIJ Special Report*, NCJ 203099 [2004].

Pushkarsky, T., **Rourke, L.**, Spiegel, L.A., Seldin, M.F., Bucala, R., Molecular characterization of a mouse genomic element mobilized by advanced glycation endproduct modified-DNA (AGE-DNA). *Mol. Med.*, Vol. 3, pp. 740-749 [1997].

Bucala, R., Lee, A.T., **Rourke, L.**, Cerami, A., Transposition of an Alu-containing element induced by DNA-advanced glycosylation endproducts. *Proc. Natl. Acad. Sci. USA*, Vol. 90, pp. 2666-2670 [1993].

Erecinska, M., Zaleska, M.M., **Chiu, L.**, Nelson, D., Transport of Asparagine by Rat Brain Synaptosomes: An Approach to Evaluate Glutamine Accumulation. *J. Neurochem.*, Vol. 57, pp. 491-498 [1991].

**PRESENTATIONS, WORKSHOPS and PANEL DISCUSSIONS**

**Rourke, L.C.**, Beyond CSI, team leader in developing and organizing this interactive exhibition presented at The World Science Festival, New York, NY [June 03, 2012]

Kobilinsky, L, Petraco, N., **Rourke, L.C.**, developed criminalistics courses for a proposed criminology program in the Law and Political Science Department at the Universidad Autonoma de Santo Domingo, Dominican Republic. [January 15-20, 2012].

**Rourke, L.C.**, The CSI Experience, team leader in developing and organizing this interactive exhibition presented at The World Science Festival, New York, NY [June 05, 2011]

Presley, L., **Rourke, L.C.**, Moorehead, W., Quarino, L., Strengthening Forensic Science Education : Council of Forensic Science Educators (COFSE), presented at the 36<sup>th</sup> Annual Meeting of the Northeastern Association of Forensic Scientists, Manchester, VT [November 9, 2010]

**Rourke, L.C.**, Promoting Critical Thinking in Forensic Science Programs, presented at the 36<sup>th</sup> Annual Meeting of the Northeastern Association of Forensic Scientists, Manchester, VT [November 9, 2010]

**Rourke, L.C.**, Forensic Science: Blood, Sweat, Tears...and Other Physical Evidence, presented at Queensborough Community College for the Educational Partnership Program, Bayside, NY [October 08, 2010]

**Rourke, L.C.**, Beyond CSI, team leader in developing and organizing this interactive exhibition presented at The World Maker Faire, New York Hall of Science, Flushing, NY [September 25-26, 2010]

**Rourke, L.C.**, The Science of Fingerprints, workshop conducted for the HHMI Leadership Training Program at the Harlem DNA Learning Center, New York, NY [July 29, 2010]

**Rourke, L.C.**, The Science of Fingerprints: Addressing the NAS Report, workshop conducted for Law Enforcement Academy HS Forensic Science Teachers, John Jay College, New York, NY [June 10, 2010]

**Rourke, L.C.**, The CSI Experience, team leader in developing and organizing this interactive exhibition presented at The World Science Festival, New York, NY [June 6, 2010]

**Rourke, L.C.**, The Science of Fingerprints: Addressing the NRC Report, presented at Forensic Science On Trial: The Impact of the National Research Council Report, New York Bar Association, New York, NY [April 19, 2010]

**Rourke, L.C.**, Criminalistics: Using Science to Solve Problems in Criminal Justice, presented to the 7th grade science class at Holy Child Academy, Old Westbury, NY [November 13, 2009]

**Rourke, L.C.**, Introduction to Forensic Science and The Science of Fingerprints, workshop conducted for the HHMI Leadership Training Program at the Dolan DNA Learning Center, Cold Spring Harbor, NY [July 21, 2009]

**Rourke, L.C.**, The CSI Experience, team leader in developing this interactive exhibition presented at The World Science Festival, New York, NY [June 14, 2009]

Gershaw, C.J., **Rourke, L.C.**, Forensic Utilization of Familial Searches in DNA Databases, poster presentation for the 61<sup>st</sup> Annual Meeting of the American Academy of Forensic Sciences, Denver, CO [February 19, 2009]

**Rourke, L.C.**, Criminalistics: Using Science to Solve Problems in Criminal Justice, presented to the Urban Assembly School for Wildlife Conservation, Bronx, NY [January 6, 2009]

**Rourke, L.C.**, The Importance of Teaching Microscopy in Forensic Education, presented at the 34<sup>th</sup> Annual Meeting of the Northeastern Association of Forensic Scientists, White Plains, NY [October 4, 2008]

**PRESENTATIONS, WORKSHOPS and PANEL DISCUSSIONS (continued)**

Gershaw, C.J., **Rourke, L.C.**, Forensic Utilization of Familial Searches in DNA Databases, poster presentation for the 34th Annual Meeting of the Northeastern Association of Forensic Scientists, White Plains, NY [October 2, 2008]

**Rourke, L.C.**, Crime Scene, presented as part of the Crime Scene Protection and Investigation Training Program for the Dominican Republic Police, sponsored by the Ministry of the Interior and Police, Dominican Republic. [January 14, 2008].

**Rourke, L.C.**, Forensic Fingerprint Analysis, Cold Spring Harbor Laboratory Workshop at John Jay College. [August 23, 2007].

**Rourke, L.C.**, Crime Scene, presented as part of the Crime Scene Protection Program for the Dominican Republic Police, sponsored by the Ministry of the Interior and Police, Dominican Republic. [April 10, 2007].

**Rourke, L.C.**, Lee, A.T., Gregersen, P.K., Seldin, M.F., Wallace, M., De Forest, P.R., Frontiers in Forensic DNA Analysis, presented to the Young Forensic Scientists Forum at the 58<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA [2006].

**Rourke, L.C.**, Forensic Science: Paving the Path to Justice in the 21<sup>st</sup> Century, presented to the 28<sup>th</sup> Annual Convention of the Science Council of New York City, New York, NY [2005].

**Rourke, L.C.**, Lee, A.T., Gregersen, P.K., Wallace, M., De Forest, P.R., Application of Multiple Displacement Whole Genome Amplification to Forensic DNA Analysis, presented to the 57<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA [2005].

**Rourke, L.C.**, Samas, E., Eberhardt, J.M., Gestring, B., Educator Series on Forensic Science Panel Discussion, at the Harcourt Teacher Leadership Center, New York, NY [2004].

**Rourke, L.C.**, Hair Analysis: Species of Origin, presented at John Jay College of Criminal Justice Microscope Day, sponsored by the New York Microscopical Society, New York, NY [2004].

**Rourke, L.C.**, Forensic Science Workshop for Science Teachers: Hair and Fiber Analysis, Harcourt Teacher Leadership Center Educator Series on Forensic Science, New York, NY [2004].

**Rourke, L.C.**, The Science of Crime Detection (for teachers of grades 4-8): ESEA Title II Eisenhower Professional Development Program In-Service Courses: FULC-3. [Mar. 2002].

Harris, H., **Rourke, L.C.**, Grutchfield, K., Integrating Forensic Science into the Classroom, panel discussion at the 1<sup>st</sup> Annual Meeting of the New England Commission on Forensic Education, Danvers MA [2000].

**Rourke, L.C.**, Crime Scene: Analysis of Trace Evidence, workshop offered at the 1<sup>st</sup> Annual Meeting of the New England Commission on Forensic Education, Danvers MA [2000].

Fogarty, P.E., Mar, E.J., **Rourke, L.C.**, Nelson, D.C., De Forest, P.R., Discrimination of Soils by Density Gradient: Single Grains vs. Aggregates, poster presented to the 50<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, San Francisco CA [1998].

**Rourke, L.C.**, Project 2000: Forensic Science Summer Camp, Sacred Heart University Summer Program: conducted a two-week long summer camp program teaching forensic science to students of grades 4-9. [Jul. 1998].

Mario, J.R. and **Rourke, L.C.**, Evaluation of the Internet as a Resource for the Forensic Sciences, presented to the 49<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, New York NY [1997].

**PRESENTATIONS, WORKSHOPS and PANEL DISCUSSIONS (continued)**

**Rourke, L.C.**, Sargeant, M., De Forest, P.R., Bynum, K.C., Nelson, D.C., Roberts, K.A., Kasbarian, B., Pizzola, P.A., Photoluminescent Detection of Gunshot Residue, presented to the 21<sup>st</sup> Annual Meeting of the Northeastern Association of Forensic Scientists, Mystic CT [1995].

Sargeant, M., De Forest, P.R., Bynum, K.C., Nelson, D.C., Roberts, K.A., **Rourke, L.C.**, Kasbarian, B., Pizzola, P.A., Photoluminescent Detection of Propellant Particles, presented to the 21<sup>st</sup> Annual Meeting of the NEAFS, Mystic CT [1995].

Roberts, K.A., Pizzola, P.A., Martir, K., Ristenbatt III, R.R., **Rourke, L.C.**, De Forest, P.R., The "Paraffin Test" Revisited, presented to the 46<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, San Antonio TX [1994].

**SPECIALIZED TRAINING COURSES TAKEN**

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|---------------|--|
| Aug. 18, 2007 | Forensic Botany Workshop, taught by Dr. Heather Coyle, co-sponsored by the Northeastern Association of Forensic Scientists, University of New Haven and The Henry C. Lee Institute of Forensic Sciences, West Haven, CT. |
| May 4, 2007   | Hair Analysis Workshop for DNA Analysts, taught by Max Houck, The Forensic Science Training Center at Cedar Crest College, Allentown, PA.  |
| Nov. 17, 2002 | Infrared Micro- and Ultra-microanalysis, taught by Dr. John Reffner, Eastern Analytical Symposium short course, Somerset, NJ.  |
| Oct. 20, 2001 | Maintenance of the Microscope, New York Microscopical Society course, Montclair, NJ.   |

**CERTIFICATIONS**

**Diplomate** - American Board of Criminalistics  
**Certificate of Fitness** - Charge of a Chemical Laboratory, NYC Fire Department

**SKILLS**

Polarized Light Microscopy, Microchemical Crystal Tests, Scientific Photography, Glass Refractive Index Determination, Serological Analyses, DNA Cloning, DNA Library Screening, DNA Sequencing, Electroporation, Enzyme-Linked Immunosorbant Assay (ELISA), Polymerase Chain Reaction (PCR), Preparation of Genomic and Plasmid DNA, Southern Blot Analysis, Cell Culture Preparation, Maintenance, and Transfection; Proficient in Microsoft Word, Microsoft Excel, and Microsoft Powerpoint Programs.

**AFFILIATIONS**

**American Academy of Forensic Sciences**, Associate Member  
**Northeastern Association of Forensic Scientists**, Member  
 Member of the NEAFS Education Committee, Jan 2007 – December 2011  
**Council of Forensic Science Educators**, Member/Treasurer  
**New York Microscopical Society**, Member  
**International Association for Identification**, Associate Member  
**American Board of Criminalistics**, General Knowledge Examination Site Coordinator at John Jay College from May 2001 to May 2002 and examination proctor in May 2002 and May 2003; FSAT Examination Committee 2006-2007

**REFERENCES**

Dr. Peter De Forest  
16 Bryant Street  
Ardsley, NY 10530  
914-428-8649  
prd4n6@aol.com

Dr. Lawrence Kobilinsky  
John Jay College  
524 West 59<sup>th</sup> Street  
New York, NY 10019  
212-237-8884  
lkobilins@aol.com