

# Lila Kari

## Curriculum Vitae

Associate Professor  
Department of Computer Science  
University of Western Ontario  
London, ON, N6A 5B7, Canada

tel: +1 (519) 661 2111 ext. 86894  
fax: +1 (519) 661 3515  
e-mail: lila@csd.uwo.ca  
<http://www.csd.uwo.ca/~lila>

### Education

- Ph.D.** Math./Computer Science, University of Turku, Finland, 1991  
Thesis: “On insertion and deletion in formal languages”  
Advisor: Arto Salomaa
- M.Sc.** Math./Computer Science, Bucharest University, Romania, 1987  
Thesis: “Formal language theory problems suggested by number theory”  
Advisor: Gheorghe Paun

### Awards

- **Canada Research Chair in Biocomputing**, 2001-2006
- **Florence Bucke Science Prize**, Univ. of Western Ontario, 2002
- **UWO Faculty of Science Award of Excellence**  
for exceptional performance in undergraduate teaching, 2000
- **Nevanlinna Prize** for the best Ph.D. thesis in Finland, 1991

### Leadership

- **Chair of the International Steering Committee for DNA Computing**, 2005 – present
- **Organizing Committee Chair** for “The 11th International Meeting on DNA Computing”, London, Canada, June 6-9, 2005
- **Member of the NSERC Computer Science Grant Selection Committee**, 2003 – present

### Research interests

#### Theory of computation

DNA computing, Self-assembly

#### Discrete mathematics in relation to computer science

Language operations

Morphisms, monoids

Codes, combinatorics on words

## Work experience

### Positions

|                            |  |         |
|----------------------------|--|---------|
| <b>Associate Professor</b> | Computer Science Department<br>University of Western Ontario, Canada | 2000-   |
| <b>Assistant Professor</b> | Computer Science Department<br>University of Western Ontario, Canada | 1996-00 |
| <b>Lecturer/Researcher</b> | Mathematics Department<br>University of Western Ontario, Canada      | 1995-96 |
| <b>Visiting Professor</b>  | Mathematics Department<br>University of Western Ontario, Canada      | 1993-95 |
| <b>Lecturer</b>            | Vaasa Institute of Technology, Finland                               | 1992-93 |
| <b>Research Associate</b>  | Academy of Finland, Turku, Finland                                   | 1992-93 |
| <b>Research Associate</b>  | Academy of Finland, Turku, Finland                                   | 1990-91 |
| <b>Research Associate</b>  | Institute for Computers and Informatics<br>Bucharest, Romania        | 1987-89 |

### Research projects

|   |         |
|---|---------|
| <b>Theory of computation, formal languages, biocomputing,</b><br>DNA computing<br>Language operations and language equations<br>Semigroups, syntactic monoids, morphisms,<br>congruences, codes and languages<br>Parallel Communicating Grammar Systems:<br>a model of parallel computing | 1993–   |
| <b>Mathematical structures of computer science,</b> Finland,<br>Language operations and language equations<br>Parallel Communicating Grammar Systems  | 1992-93 |
| <b>Data transmission and data security,</b> Finland,<br>Language operations and language equations<br>Cryptography  | 1990-91 |
| <b>Parallel knowledge processing systems,</b> Romania,<br>Parallel Communicating Grammar Systems<br>Complexity theory: recursive functions<br>Artificial intelligence<br>Networks and multiprocessor architectures  | 1987-90 |

### Professional affiliations

European Association of Theoretical Computer Science, EATCS.

American Association of Computing Machinery, ACM.

International Society for Nanoscale Science, Computation and Engineering,  
ISNSCE