



**ASNUNTUCK
COMMUNITY COLLEGE
CAFÉ II**

170 ELM STREET, ENFIELD

Directions to Asnuntuck Community College
<http://www.asnuntuck.edu/directions>

**SPRING 2013
MATYCONN
MEETING**

**Friday
April 5, 2013**

1:00 to 2:00 pm – Registration, Social Hour

2:00 to 3:00 pm – Business Meeting

**3:15 to 4:10 pm – A PROBABILISTIC AND GRAPHICAL ANALYSIS OF
EVIDENCE IN O.J. SIMPSON'S MURDER CASE
USING BAYESIAN NETWORKS
Kunle Olumide**

4:10 to 4:25 pm – PA 12-40 Update

**4:35 to 5:30 pm – COMPUTER VISION – HOW DO COMPUTERS “SEE”
Kegan Samuel**

5:30 to 6:30 pm – Dinner

See separate sheet for descriptions of presentations.

Meeting Registration Form — separate sheet

MATYCONN Spring 2013 Meeting

Registration Form

Friday, April 5, 2013 @ Asnuntuck Community College

Please register by April 1st.

Please print legibly.

Name _____

College _____

Address _____

Phone: _____ Email: _____

Please Enter Amounts:

\$ _____ Meeting Registration \$20

\$ _____ MATYCONN scholarship – suggested donation \$5

\$ _____ Membership Fee* – see below for fee schedule (**complete separate membership application**)

\$ _____ **TOTAL ENCLOSED**

Please mail this completed form (and membership form if applicable) with check payable to MATYCONN to Kegan Samuel, Math Department, Naugatuck Valley Community College, 750 Chase Parkway, Waterbury, CT 06708 by Monday, April 1, 2013

*Membership Information . . . please consider joining . . .

Go to MATYCONN website at <http://www.matyconn.org> for a MATYCONN Membership Application under "About Us".

Membership Fees are low:

\$10 Yearly membership for full-time department members

\$18 Two-year membership for full-time department members

\$5 Yearly membership for adjuncts, students, and retirees

\$9 Two-year membership for adjuncts, students, and retirees

\$25 Lifetime membership for retirees (one-time payment)

Spring 2013 MATYCONN meeting – April 5, 2013

Kunle Olumide

Presentation #1 - A PROBABILISTIC AND GRAPHICAL ANALYSIS OF EVIDENCE IN O.J. SIMPSON'S MURDER CASE USING BAYESIAN NETWORKS

This research work was an attempt to illustrate the versatility and wide applications of the field of statistical science. Specifically, the research work involves the application of statistics in the field of law. The application focuses on the sub-fields of Evidence and Criminal law using one of the most celebrated cases in the history of American jurisprudence - the 1994 O.J. Simpson murder case in California. Our task here was to do a probabilistic and graphical analysis of the body of evidence in this case using Bayesian Networks. We began the analysis by first constructing our main hypothesis regarding the guilt or non-guilt of the accused; this main hypothesis was supplemented by series of ancillary hypotheses. Using graphs and probability concepts, we evaluated the probative force or strength of the evidence and how well the body of evidence at hand proved our main hypothesis. We employed Bayes rule, likelihoods and likelihood ratios to carry out such evaluations. Some sensitivity analysis was carried out by varying the degree of our prior beliefs or probabilities, and evaluated the effect of such variations on the likelihood ratios regarding our main hypothesis.

Kegan Samuel

Presentation #2 – COMPUTER VISION – HOW DO COMPUTERS “SEE”

The human visual system can perceive and understand the world around with apparently very little difficulty. In the computer vision field, researchers attempt to process and understand digital representation of images in a similar manner using various computer algorithms or mathematical models. While much has been accomplished in the field, there is still a significant amount of work to be done before a system is developed which would be able to interpret images at a level remotely close to that of humans.

MATHEMATICAL ASSOCIATION OF TWO YEAR COLLEGES OF CONNECTICUT

(MATYCONN)

<http://www.matyconn.org>

MEMBERSHIP APPLICATION

Date

First Name Middle Initial Last Name

College College Phone College Fax

College Street Address E-Mail

City State Zip Code

Residence Street Address Phone

City State Zip Code

____ Check here if you do NOT want to be listed in the MATYCONN Membership Directory.
____ Check here if you do NOT want your college information to be listed on the MATYCONN website.

* **Membership Fees:**

- _____ \$10 Yearly membership for full-time department members
- _____ \$18 Two-year membership for full-time department members
- _____ \$5 Yearly membership for adjuncts, students, and retirees
- _____ \$9 Two-year membership for adjuncts, students, and retirees
- _____ \$25 Lifetime membership for retirees (one-time payment)
- _____ Contribution to the MATYCONN Scholarship Fund
- _____ I am currently a member of AMATYC.

Note: **AMATYC membership forms** are available at <http://www.amatyc.org>.
Send \$80 directly to AMATYC for yearly membership, which includes one subscription to *The AMATYC Review* and the *AMATYC News*.

_____ **Total Enclosed**

* **Effective May 18, 1995, by a vote of the MATYCONN Executive Board, if you overpay your MATYCONN dues the extra money will automatically go into the MATYCONN Scholarship Fund.**

Please mail this completed form and a check payable to MATYCONN to
Kegan Samuel, Math Department, Naugatuck Valley Community College,
750 Chase Parkway, Waterbury, CT 06708