# PATTERNS, TYPES, AND DETERMINANTS OF COLLABORATIVE INTERACTIONS

IN A SUPPLEMENTARY ONLINE DISCUSSION FORUM OF AN UNDERGRADUATE BIOSTATISTICS CLASS

> Early Sol A. Gadong Asst. Professor in Mathematics University of the Philippines Visayas

# **BACKGROUND OF THE STUDY**

### COMPUTER MEDIATED COMMUNICATION (CMC)

100

### COLLABORATIVE INTERACTIONS

## • LACK OF ACCESS TO AFFORDABLE AND EFFICIENT TECHNOLOGY

### • ONLINE DISCUSSION FORUM (ODF)

Early Sol A. Gadong University of the Philippines Visayas

1

17 June 2015



-

# **THEORETICAL FRAMEWORK**

1

## **DISCOURSE ANALYSIS**

## **COMPUTER-SUPPORTED COLLABORATIVE LEARNING**

Early Sol A. Gadong University of the Philippines Visayas

A sea

**17 June 2015** 

**10<sup>th</sup> eLFA Conference SIM University, Singapore** 

1

# **STATEMENT OF THE PROBLEM**

# WHAT ARE THE CHARACTERISTICS OF COLLABORATIVE INTERACTIONS IN THE ODF? WHAT DEMOGRAPHIC, COGNITIVE, AND AFFECTIVE FACTORS AFFECT THE INTERACTIONS IN AN ODF?

Early Sol A. Gadong University of the Philippines Visayas

1

**17 June 2015** 

10<sup>th</sup> eLFA Conference SIM University, Singapore

1

# PARTICIPANTS

• 32 UNDERGRADUATE STUDENTS (24 FEMALES AND 8 MALES)

100

- TWO BIOSTATISTICS CLASSES (LAB COMPONENT). ONE SEMESTER, OVER A PERIOD OF 16 WEEKS.
- AVERAGE AGE = 18.13 YEARS (SD = 0.87)
- **BS BIOLOGY DEGREE PROGRAM**

1

37.5% (N = 12) FROM UPPER MIDDLE-CLASS SOCIO-ECONOMIC LEVEL AND 62.6% (N = 20) BELONGING TO THE LOWER MIDDLE-CLASS

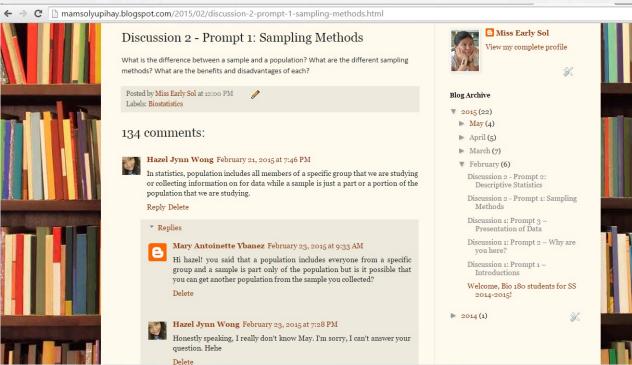
Early Sol A. Gadong University of the Philippines Visayas

17 June 2015

**10<sup>th</sup> eLFA Conference** SIM University, Singapore

Sec. 1

# **THE PLATFORM**





Se 🕁

#### **Early Sol A. Gadong University of the Philippines Visayas**

L St.

#### 17 June 2015

#### **10th eLFA Conference SIM University, Singapore**

the s

## DESIGN

## DISCUSSION PERIODS

## • DEMOGRAPHIC CHARACTERISTICS

## • TIMELINESS OF RESPONSE

MATHEMATICAL ABILITY

1

## • ATTITUDINAL SCALE IN MATHEMATICS

## • CLASSROOM AND SCHOOL COMMUNITY INVENTORY

• CODING

Early Sol A. Gadong University of the Philippines Visayas

17 June 2015

**10<sup>th</sup> eLFA Conference SIM University, Singapore** 

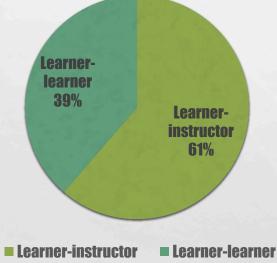
the state

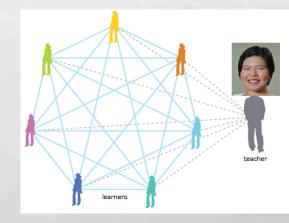
100

## **TYPES OF COLLABORATIVE INTERACTIONS**



## Number of Interactions





### Early Sol A. Gadong University of the Philippines Visayas

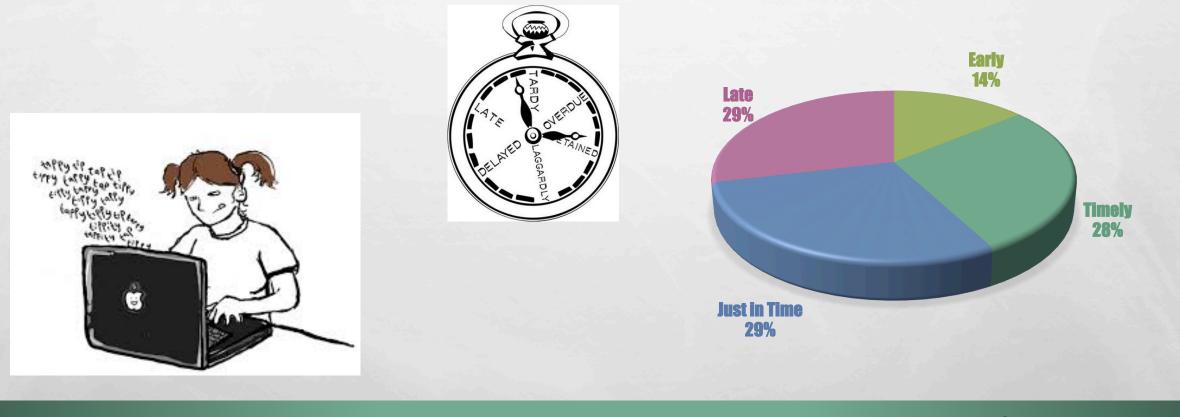
L. S.

### **17 June 2015**

#### **10<sup>th</sup> eLFA Conference** SIM University, Singapore

den e





Early Sol A. Gadong University of the Philippines Visayas

L. S.

### 17 June 2015

South States and States and States

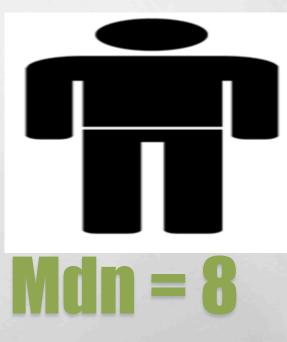
1

#### **10<sup>th</sup> eLFA Conference** SIM University, Singapore

(Arec.)

# **FEMALES VS MALES**





Early Sol A. Gadong University of the Philippines Visayas

A sea

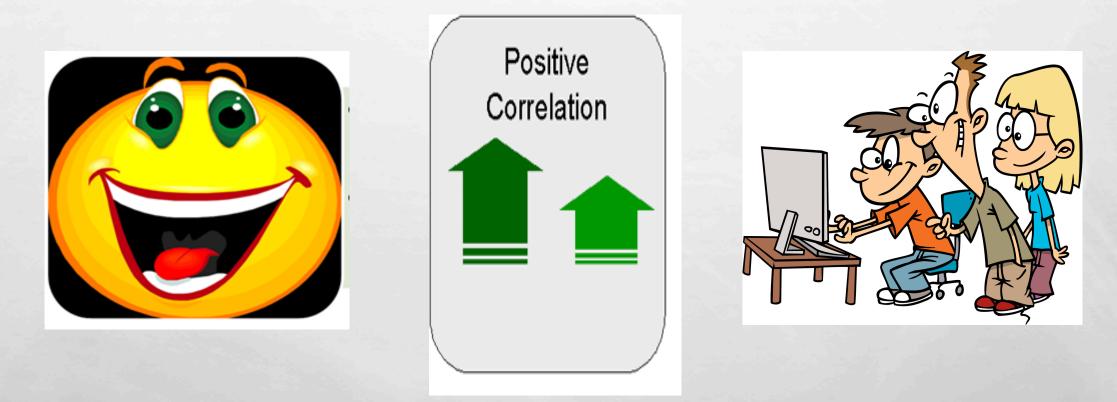
**17 June 2015** 

A STATE OF A

**10<sup>th</sup> eLFA Conference** SIM University, Singapore

Here &

# **ATTITUDE TOWARDS MATH**



### Early Sol A. Gadong University of the Philippines Visayas

L. S.

### **17 June 2015**

#### 10<sup>th</sup> eLFA Conference SIM University, Singapore

# **DIRECTIONS FOR FUTURE RESEARCH**

### MORE OPEN-ENDED PROMPTS

### • EXPLORE AFFECTS AND PARTICIPATION / PROCRASTINATION

20

## INVESTIGATE OTHER DEMOGRAPHIC, ENVIRONMENTAL, COGNITIVE, AND AFFECTIVE FACTORS

Early Sol A. Gadong University of the Philippines Visayas

1

**17 June 2015** 

**10<sup>th</sup> eLFA Conference SIM University, Singapore** 

Anot

## MADAMO GID NGA SALAMAT!

Early Sol A. Gadong University of the Philippines Visayas

A Sta

**17 June 2015** 

The result of the second second

**10<sup>th</sup> eLFA Conference SIM University, Singapore** 

Marcal.

1.10