

# Sorachai Kornkasem (Sor), Ph.D.

Cognitive Scientist | Architect | Educator

Email: drkornkasem@gmail.com

## EDUCATION

- Ph.D** Cognitive Science: Visuospatial Cognition & Intelligent Technologies, Columbia University  
*Advisors: John B. Black & Barbara Tversky*
- Ed.M** Educational Psychology: Cognitive, Behavioral & Developmental Analysis, Columbia University
- M.Sc** Architecture and Urban Design, Columbia University
- M.Arch** (Fellowship) Behavior & Environment, University of Illinois
- B.Arch** (Distinction) Architecture, Chulalongkorn University, Thailand

## RESEARCH INTERESTS

Cognitive Psychology in Visuospatial Cognition, Learning Science, Creativity & Design Education;  
Built Environment in Space Planning, Architecture, Urban Design, Ecology, Behavioral & Environmental Psychology;  
Intelligent Technologies in Augmented, Virtual & Mixed Reality, Data Science & Machine Learning.

## PROFESSIONAL EXPERIENCE

**Design, Research & Learning Expert**, New York & Bangkok, 2018-

Provide design consultation and planning strategy for commercial and residential projects while serving as a part time lecture for higher academic institutions.

**Design & Research Consultant**, Atelier-Lumiere, Inc. New York, NY, 2010-2018

Developer of architectural lighting experiences with buildable details for interior and exterior environments from design to production phases. Shaped and balanced client and user goals/preferences to enhance the impact of lighting (design, quality and technology) at both human scale and larger communal settings.

*Achievements include:*

- Produced over 300 unique architectural lighting features.
- Created over 15 lighting mock-ups for testing and analyzing luminous quality and effectiveness.
- Mapped 12,500 poles of large-scale luminous experiences for road way.
- Completed over 250K SQ.FT. lighting scope from hospitality to retail and residential projects.
- Key projects include Argo Group, Sheraton Tribeca, Four Season NYC, 9/11 Memorial Gift Store, and DKNY Las Vegas.

**Project Manager & Design Consultant**, PLAN Architecture, PLLC, New York, NY, 2007-2017

Managed and implemented overall architecture, interiors, and strategy integration for non-profit to residential clients. Led design direction, space planning, construction documentation and administration.

*Achievements include:*

- Generated qualitative and quantitative user surveys to influence design vision reflecting clients' values and engagement.
- Re-envisioned clients' customized workspace direction and facilitated planning strategies to increase over 150% productivity and reduce over 1/3 maintenance cost.
- Identified unique keys of human factors and interaction with surroundings and translated findings into the better human dwelling experiences, resulting in unique collaborative spaces in various typologies.
- Reduced over 1/3 maintenance cost for fast growing non-profit organizations, both headquarters and satellite offices.
- Key team player in completion of key due diligent report of new constructions for clients' transaction decisions, 25% savings.
- Inspected and evaluated over 50 site selections and their effectiveness to meet clients' budgets and growth forecasts.
- Compiled and coordinated over 40 construction documentations with all trades and delivered them on time.
- Worked closely with engineers, MEP, structural, audio/visual and lighting consultants, building codes and zoning experts, interiors and suppliers. Timely collaborated to the completion for design, bidding document and contracting.
- Supervised daily construction administration and weekly meeting to advocate the client needs of the design intents.

## Sorachai Kornkasem (Sor), Ph.D.

- Completed over 450K SQ.FT. of construction areas for non-profit projects to commercial and residential.
- Key projects include Teach For America, City Harvest, TNTF, NYC commercial developments, and private residences.

### **Project Coordinator**, HLW International, LLP, New York, NY, 2010

Construction project coordinator reporting to senior management, implemented construction documentation and specifications for bid packages and reviewed specified construction materials.

#### *Achievements include:*

- Detailed architectural features, produced construction documentation, and managed associated administration.
- Completed Projects: Chase Bank Amenity Floor and ABC News Corporations facility surveys.

**Educational Committee**, The Environment & Technology division and ASA Green Initiatives, The Association of Siamese Architects Under Royal Patronage, Bangkok, Thailand, 2008-10

### **Project Manager**, INARCH Architecture, PLLC, New York, NY, 1997-2006

Started as a Technical Architect and progressed to Project Manager. Managed, designed and implemented projects for a range of corporate and public sector clients from initial meeting to post-occupancy evaluation phases. Incorporated organizational, technological and user potentials parameters. The work contributed to increasing client value, service and outcome. Completed over 1.5M SQ.FT. of built workplaces and construction projects.

#### *Achievements include:*

- Strategic plan and project implementation to create spaces and guided clients through design and construction processes.
- Analyzed impediments to project goals and identified and implemented solutions to reduce construction costs.
- Utilized a variety of visual methods from hand-sketch to digital format to interact in real time with clients.
- Pioneered and implemented technical library system of architectural details for internal organization efficiency.
- Managed multiple projects and led team to develop and deliver construction documentation on time.
- Evaluated and leveraged bid packages via re-engineering process to meet clients' financial goals and contracts.
- Streamlined critical path schedule control and managed construction administration.
- Monitored daily project construction to protect client interests and delivered the highest quality work.
- Advised on the design revisions in response to unforeseen field conditions and associated change order requirements while maintaining the integrity of the projects.
- Consultanted to the Department of Export Promotion, Ministry of Commerce, Royal Thai Government in New York
- Completed projects: Revlon, A&E, Bessemer Trust Company, Atlantic Trust, Amaranth Investor, NYU Law School, Saatchi Saatchi, Saks Fifth Avenue, and DKNY.

### **Junior Architect**, Architects 49, Ltd., Bangkok, Thailand, 1994

Duties included from assisting senior project architects and a studio leader, Anusorn Paksukcharern, from programming to design phases to construction details.

### **Intern Architectural Designer**, Korridor, Ltd., Bangkok Thailand, 1992-1994

Duties included from assisting principal, Professor Kiti Sindhuseka, on various tasks, ranging from design schematic sketches to presentation.

## ACADEMIC & RESEARCH EXPERIENCE

### **Appointed Positions**

**Part-time Lecturer**, various locations 2018-

Appointed by two leading universities for three classes, lecturing lessons, evaluating and mentoring.

Chulalongkorn University, Faculty of Architecture's International Program in Design and Architecture (INDA)  
2nd-4th Year course, Creativity in Urban Living: General Education for Social Science.  
(August – December 2018 once a week, January – present 2019 once a week)

Thammasat University, Faculty of Architecture and Planning, Design, Business, Technology and Management.  
Graduate course 2nd Year, Special Issue 2: Emerging Technologies Issues.  
(August – December 2018 once a week)

## **Sorachai Kornkasem (Sor), Ph.D.**

2nd Year course, Inclusive Design Innovation.  
(August – November once a week – all day lecture and studio)

**User Researcher**, Tiggly, New York, NY, 2017

Assisted Chief Learning Officer to achieve learning systems and journeys for 2-8 years old children by integrating physical play into digital tablets. Supported the development of QA, research protocols, play-test sessions' observation, A/B testing, and competitors' assessment.

**Senior Researcher**, Institute of Learning Technologies, Columbia University, New York, NY, 2011-2016

Part of research team focused on the advancement of cognitive, perceptual and psychological research inquiries. Provided and assessed theoretical assumptions of human interaction with rapidly changing technology through research iteration processes.

*Achievements include:*

- Developed stimulating methodologies to target appropriate levels of users' interaction and engagement, and detect user behavior sensitivity.
- Prioritized research objectives and collaborated with all stakeholders resulting in overall smooth execution of the projects.
- Mentored associates and coordinated with programmers and other technical consultants throughout research processes.
- Undertook peer-reviews, prepared and presented research insights and findings for publications and conferences.
- Shared design professional insights with the teams resulting in a strongly critical and creative thinking environment.
- Implemented over 10 learning plans and optimized training sessions with creative materials based on user conversion.
- Over 15 pilots conducted, tested and retested to achieve formal protocols and methodologies led to successful research.
- Facilitated over 100 lab testing and walk-through sessions, observed learner-produced data, 1-on1 interview, & debriefed.
- Evaluated various measurements via video coding, eyed-tracking, behavioral patterns, as well as transcriptions.
- Key projects: 3D modeling visuospatial skill training, NSF Grant with WNET-13 Cyberchase for educational math game on digital tablet (8-9 y/o), LEGO Mindstorms & programming through embodiment (7-10 y/o), Grounded Learning Experience in Physics.

**Studio Lecturer**, Faculty of Architecture and Planning, Thammasat University, Bangkok, Thailand, 2008

4th Year Architectural Studio Including a lecture of Mapping: the Unconventional Method for the Urban Design Studio. Appointed by Thailand's universities for lecturing lessons, evaluating and mentoring design students.  
(June – September twice a week)

**Studio Lecturer**, Faculty of Architecture, Chulalongkorn University, Bangkok, Thailand, 2008

2nd Year: 361135 Building Materials & Constructions course including a lecture series of Voids & Openings  
(June – September twice a week)

**Digital Researcher**, Hell's Kitchen Public Trustee, NY, 1999

Support researchers to a public project, *The Hell's Kitchen*, leading to international competition on rail yard.

**Digital Assistant**, Columbia University, GSAPP, New York, NY, 1997

Taught and supported needs from faculties in the Department of Urban Design and Assisted in teaching in digital knowledge and skill courses required to use in the Urban Design Program for graduate students of 25 students.  
(Summer to early Fall)

**Research Assistant**, Urban Design Research Group, GSAPP, Columbia University, NY, 1997-1998

Supervised by Professor Richard Plunz duties including, served as an editorial assistant for several faculty researches, student project works and department website.

**Assistant Lecturer**, Chulalongkorn University, Faculty of Architecture, Bangkok, Thailand, 1994-1995

Duties to assist Professor Tippsuda Patumanon for the 1st Year Architectural Presentation Course of 125 students. Instructed, supervised and guided students to learn and to develop different presentation skills & techniques from basic pencil sketching to pen rendering to water coloring.

**Research Assistant**, Chulalongkorn University, Faculty of Architecture, Bangkok, Thailand, 1994-1995.

Conducted and prepared previous outstanding student works in the Design Fundamental Materials published by Chulalongkorn University Press.

## Sorachai Kornkasem (Sor), Ph.D.

**Lecturer**, Samoodtai School of Art, Bangkok, Thailand, 1991-1993

Instructed the Introduction to Architecture and Design Basics courses for high school students. Lectured the basic design knowledge and skills required for the Annual National Entrance Examination, administrated by the Department of Education, Royal Thai Government.

### Invited Guests

**Critic**, International Program in Design and Architecture, Faculty of Architecture, Chulalongkorn University, 2019  
4th Year design studio in architectural design "Façade," taught by Surapong Lertsithichai.

**Critic**, International Program in Design and Architecture, Faculty of Architecture, Chulalongkorn University, 2019  
4th year design studio in architectural design "Augmented Architecture 1.0", taught by Surapong Lertsithichai.

**Critic**, Faculty of Architecture, National Chen Kung University, Tainan, Taiwan, 2018  
"Made in Taiwan" 1-week Workshop, collaboration between NCKU and KMUTT design students

**Critic**, Schools of Architecture (including Thammasat, King Mongkut, Chulalongkorn, Sripatum), Thailand, 2018-  
From Thesis review and various undergraduate project levels, in interior, architectural, urban design and DBTM projects.

**Critic**, School of Constructed Environments, Parsons School of Design, New York, 2018  
4th Year Architectural Studio in architectural and urban design project, class taught by Professor Brian McGrath.

**Critic**, Faculty of Architecture Chiang Mai University, Bangkok, Thailand, 2017  
A 2nd year design studio in Architecture Design course taught by Year 2 teaching team.

**Critic**, Faculty of Architecture, King Mongkut Institute of Technology Thonburi, Bangkok, Thailand, 2017  
5th Year Interior Architecture Studio English Program, Thesis Preparation, course taught by Year 5 teaching team.

**Lecturer**, Faculty of Architecture Silpakorn University, Bangkok, Thailand, 2016  
Topic on the "Research Questions" for a doctoral seminar in Architecture program taught by Api Kasemsook

**Lecturer**, Faculty of Architecture, Chulalongkorn University, the, Bangkok, Thailand, 2016  
Topic on the "Design" for a design seminar in Industrial Design program taught by Puvanai Dardarananda

**Lecturer**, Silpakorn University, the Faculty of Architecture, Bangkok, Thailand, 2009  
Lecture thru Video Conference in the "Recent Green Technology Innovation" for a graduate seminar in Architecture Innovation course taught by Surapong Lertsithichai.

**Critic**, School of Constructed Environments, Parsons School of Design, New York, 2009  
4th Year Architectural Studio, Architectural/Urban Design project taught by Professor Brian McGrath and Victoria Mashall.

**Critic**, Parsons School of Design, New York & INDA Chulalongkorn University, Thailand, 2008  
Cinematics Workshop, 4th Year Architectural Studio.

**Moderator**, CDAST 2008 International Conference, Council of Dean Architectural School Thailand, 2008 Conference  
organized by Faculty of Architecture, Naresuan University, Thailand

**Lecturer**, Institute of Siamese Architects, Bangkok, Thailand, 2008  
Topic, "Project Manager: May It be a New Survival Option for Thai Architectural Profession?" (1-day seminar/workshop).

**Lecturer**, Department of Interior Architecture and Architecture, Chulalongkorn University, Thailand, 2008  
Topic, International Professional Practice, 5th Year Professional Practice Seminars.

**Lecturer**, Faculty of Architecture, Silpakorn University, the, Bangkok, Thailand, 2008  
Topic the Western Urban Development for the 5th Year Architectural Studio class taught by Surapong Lertsithichai.

**Critic**, Faculty of Architecture, King Mongkut Institute of Technology Thonburi, Bangkok, Thailand, 2008  
3rd Year Architecture Studio English Program, the Final Review, class taught by 3rd Year teaching team.

## **Sorachai Kornkasem (Sor), Ph.D.**

**Critic**, Faculty of Architecture, Silpakorn University, Bangkok, Thailand, 2007  
2nd Year Architectural Presentation & Exhibition class, the Final Review, class taught by 2nd Year teaching team.

**Critic**, Chiang Mai University, Faculty of Architecture, Chiang Mai, Thailand, 2004  
3rd Year Architecture Studio Spring Review, class taught by 3rd Year teaching team.

**TV Guest Expert**, the Architects Answer "Mor Baan" (an architectural consultation television show), Thailand, 2000  
As a professional expert on the residential building constructions.

### **PROFESSIONAL DEVELOPMENT/CONFERENCES**

Cognitive Science Society (CogSci 2017), London, UK, 2017

International Conference on Spatial Cognition (ICSC 2015), Philadelphia, 2015

Association for Psychological Science (APS 2015), New York, 2015

Computer-Aided Architectural Design Research in Asia (CAADRRIA 2015), Seoul, Korea, 2015

London International Conference on Education, London, UK 2014

American Educational Research Association, 2012-16

Subway Summit Conference, New York, 2011-16

Teachers College Educational Technology Conference, Columbia University, New York, 2010-13

Response and Responsibility: Restorative Design in the Age of Climate Change, Columbia University, New York, 2005  
Post Ductility: Metals in Architecture and Engineering, GSAPP, Columbia University, NY, 2009

CDAST 2008 International Conference, Council of Dean Architectural School Thailand, organized by the Faculty of Architecture, Naresuan University, Thailand, 2008

CAADRRIA – Computer Aided Architectural Design Research in Asia (March 10th-12th, 2008)  
Hosted by Chiang Mai University Faculty of Architecture, Chiang Mai, Thailand, 2008

ASA International Forum, Association of Siamese Architects, Bangkok, Thailand, 2006-10  
Conferences in various issues including Trend & Sustainability Design Research in Asia

School of Professional Studies New York University, New York, NY, 2000-  
X63 9046 Fundamental Programming Space Planning,  
X63 9032 Principal Facility Management,  
X63 9047 Facility Project Management,  
X63 9380 Owner's Side Project Management,  
X30 9485 Advanced Business Communication  
CESL1-CE9361 Accent Correction

### **HONORS/AWARDS**

General Scholarship Award, Teachers College, Columbia University, New York, NY, 2010-16

Recognition for Professional Works: Lighting Design Award for DKC Store, Las Vegas, NV, 2012  
DKC Store Work at Atelier-Lumiere, Inc.

Recognition for Professional Work Award, Residential A/V Systems Design, Design Silver, HD Living Magazine, 2008  
For a private penthouse on Upper East Side, New York, NY

## Sorachai Kornkasem (Sor), Ph.D.

Recognition for Professional Works: Video Conferencing Center Excellent Award Design, 2003  
For a private Trust Company, New York

"The Edwin A. Horner Graduate Fellowship in Architecture" award from the University of Illinois, Illinois. 1995  
Recognized as the outstanding scholarship and professional development for an entering graduate student from outside the UIUC for general scholastic excellence and professional promise.

Teaching Accomplishment Certificate, Chulalongkorn University Faculty of Architecture, Bangkok, Thailand, 1995  
in recognition for the teaching and research assistant.

Academic Distinction Chulalongkorn University, Thailand, 1994  
Recognized for an academic overall GPA of 3.25-3.6, 2nd Class Honor.

Chulalongkorn University Medal and Certificate in Leadership Accomplishment Award, Thailand, 1994  
In recognition as a leadership who successfully contributed and served university's activities.

Elected Vice-President of the Chulalongkorn University Graduate Committee Class of 1994, 1993-1995  
Selected as an orator presenting before His Highest Majesty the King Bhumibol Adulyadej  
Organized and delegated tasks for the 3-Day University Commencement Ceremony 1994

Elected President of the School of Architecture Students Organization 1992-93  
Served as a leader for architecture school's students, a yearlong activity for both academic and extracurricular programs, within and outside university.

Royal Thai Government Thesis Research Grant for Thesis, 1993  
Topic on Chiang Mai University the School of Architecture, a selected research and thesis focused on public & social science issues

### PUBLICATIONS

International Conference on Spatial Cognition (ICSC 2018), Rome, Italy - *accepted*  
Titled: Developing Spatial Thinking Skills Using Multimedia Perceptual Models

Startup Thailand Magazine, Thailand 2017  
Design Column (Thai) a monthly article depicting design and user experience case studies from current world-class businesses funded by Thai Government's National Innovation Agency

Association for Psychological Science (APS 2017), Boston, US  
Titled: Touch Me & Talk to Me (to Get Me): Learning to Think Spatially

American Educational Research Association (AERA 2017), San Antonio, US  
Titled: ¿When is it the gesture that counts?

Cognitive Science Society (CogSci 2017), London, UK  
Titled: From Abstract to Concrete, Evidence for designing learning platform that adapt to users' proficiencies

Academic Commons, Columbia University, 2016  
Titled: Developing Visuospatial Thinking Skills, Ph.D. Dissertation Columbia

Spatial Cognition (SC2016), Philadelphia, US  
Titled: Spatial Thinking Learning Using Explicit Spatial Language

International Conference on Meaningful Play 2016, East Lansing, US  
Titled: Embedding Gestures into Narrative Tutor-games to Learn *Fractions*

Games + Learning + Society Conference (GLS 11), Pittsburgh, US  
Titled: Mobile Movement Mathematics (M3): Discussing Iterative (re)Design of a Digital Tablet Tutor-Game

## **Sorachai Kornkasem (Sor), Ph.D.**

Cognitive Processing & International Conference on Spatial Cognition (ICSC 2015), Rome, Italy  
Titled: Formation of Spatial Thinking Skills Through Different Training Methods

Association for Psychological Science (APS 2015), New York, US  
Titled: The effects of differences of process-based mental simulation on developing spatial thinking skills

Computer-Aided Architectural Design Research in Asia 2015 (presentation accepted), Daegu, Korea  
Titled: CAAD, Cognition & Spatial Thinking Training

London International Conference on Education 2014, London, UK  
Titled: Spatial Thinking Training Using Geometry and Architectural Artifacts

American Educational Research Association, AERA 2013, San Francisco, US  
Titled: Mobile Movement Mathematics: Exploring the gestures students make while explaining Fractions

Cognitive Science Society (CogSci 2013), Berlin, Germany  
Titled: Using LEGO Robotics to Engage Minority Students in Science and Technology

Teachers College Educational Technology Conference 2012, New York, US  
Titled: Applying Physics to the Real World: Using Embodiment and LEGO Mindstorms in Physics Learning for Children

Teachers College Educational Technology Conference 2012, New York, US  
Titled: Digital Modeling as Geometric Thinking & Learning: Top, Side & Perspective Views to Improve Spatial Abilities

ASA Green Guide (Thai), The Association of Siamese Architects under Royal Patronage, 2011, Thailand  
A team member for the Educational Committee in Technology and Environment.

Pro Bono Translator (Thai) of Talks for TED Ideas worth spreading (started late summer), 2009.

Green Living City (Thai) by ASA publication, a collection of articles published in "Daily News", Thailand, 2010

Article (English/Thai) Eco-Track: The High Line, art4D, an established art architecture & design magazine for November/December issue, Thailand, 2009

Resorts by Thai Architects, served as Text Editor & Editorial Team, by Li-zenn, Thailand, 2009  
Published worldwide by Page One Publishing Spring 2010, ISBN: 978-611-7191-05-3.

Published Professional Works, Residential Audio Visual Systems Design, Design Silver, HD Living Magazine, USA, 2008

"Green Living City" bi-monthly column under Architecture & Real Estate section for a national newspaper, Daily News, Thailand, 2008-2010

"Design" at <http://sorkornkasem.com/>, an occasion self-published online publication (Thai) in various topics related to design, thinking, innovation, education, green technology, and environmentally friendly knowledge for Thai designers/students audiences, 2008-

Published, Professional Works, Thai Privilege Spa (New York location) in various magazines, 2007  
A government-funded project by the Ministry of Commerce, Royal Thai Government.

New York Post: Recognized as a 100 Influence Immigrants representing Thailand, 2006  
Profession in architecture/design and living in New York, NY

Interviewed as a professional working in an architecture and design industry in New York City, Lips Magazine July issue, Thailand 2005

Published, Professional Works: Video Conferencing Center Excellent Award, 2003  
Design recognition for professional work of Bessemer Trust Company, New York, NY

## **Sorachai Kornkasem (Sor), Ph.D.**

Article (Thai), Art4D, art and architecture magazine, Thailand, 2002

An architectural review of the Rose Center--National Natural History Museum in New York.

Hell's Kitchen South: Developing Strategies, New York, 2002

Viren Brahmhatt, Michael Conard, Richard Plunz, David Smiley: Design Trust for Public & Space Hell's Kitchen Neighborhood Association

Article (Thai/English) for the Hell's Kitchen Urban Design Development for art4D magazine, New York, 2000

Hell's Kitchen Conference: Workshops to Reshape the Neighborhood, New York, 1999

Participated & volunteer digitization, Centered and initiated the potential of the development

Graduate Studio Works, Exhibition and Publication, New York & Caracas 1998

The studies for the extension of the Cota Mil in Caracas in collaboration with the Regional Institute for Urban Studies, Exhibition held in Caracas, Venezuela. Institucion Des Este Columbia Urban Design Program Caracas, Urban Design projects study, published selected project Urban Books in 2001

Morningside Heights 100 Years Columbia University Exhibition, Columbia University, NY, 1997

Selected Morningside Height Project in Urban Design Studio, Fall 1996 semester.

Year-End Exhibition, GSAPP Columbia University, 1997

Selected Multimedia Project in Urban Design Studio, Fall 1996

Selected Multimedia Project, TARTU, in Architecture of Information Spring 1997

Abstract 1996-1997, Columbia Graduate School of Architecture, Columbia University, 1997

Featured Morningside Heights Columbia University studio project

Selected artifact image, Manhattan Waterfront, P.110

Selected Group Research and Study Caracas

Selected Computation Study, Architecture of Information Final Interactive Project, Tart

Web Archiving for A4527 Architecture Information: Multimedia & Interactive Design, selected project, "Tartu" 1997

Web Archiving selected works in A4535 Computer Aided Design in Architecture course 1996

Web Archiving work for Urban Design Studios, Summer 1996 and Fall 1996

[http://www.columbia.edu/cu/gsap/courses/urban\\_design/summer96/sorachai.html](http://www.columbia.edu/cu/gsap/courses/urban_design/summer96/sorachai.html)

<http://www.gsapp.org/UD/FA96/Sorachai/sorachai1.html>

Year-End Exhibition, School of Architecture, University of Illinois, Urbana-Champaign, Illinois, 1996

ARCH 426-427 Architectural Design Studio V & VI for the Master Thesis Research/Design, "Learning Environment": a study research and design for a pre-school children from an interview, observation, literature studies to the formation of growing cubic and experimental design: the Childcare Development Center, Champaign, Illinois

Design Fundamental Textbook, the Faculty of Architecture, Chulalongkorn University, Thailand 1996

Assisted Professor Lersom Sthapitanonda in conducting and reformatting student design studio works in from 1st Year Design Studio from 1988-1994

Honorable mentioned, The Association of Siamese Architects, Thailand 1995

Design Competition Publication & Exhibition, TUBE, a water city.

Selected Thesis Design exhibited at Association of Siamese Architects Annual Exposition, Bangkok, Thailand, 1994

"Chiang Mai School of Architecture" : a research and design for a prospective establishment of a creative learning environment for the Faculty of Architecture for Chiang Mai University under Thai Government 10 Years Plan to expand the professional fields in higher education from previous 6 architectural schools in 1992 to 20 in 2002.

Thesis Works Publication (as an editor), Chulalongkorn School of Architecture, Thailand, 1994

Royal Thai Government, Urban Planning Sector, Exhibition and Public Hearing, Thailand, 1993



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Water Community Chao Pra Ya River Study and Analyses: a government funded Research to study the impact of a new proposal Bangkok Belt-Way Conducted research for a group of academic research in Urban Planning & Policy.

Selected for exhibition for University-wide Triennial Academic Exposition, Chulalongkorn University, Thailand, 1991-93  
Various Architectural Design Projects from 1st Year thru 5th Year

## PROJECT EXPERIENCE

### Academics

#### Research Projects Columbia University

- 2012-16 Dissertation: Developing Spatial Thinking Skill Trainings.  
*Advisors: John B. Black & Barbara Tversky*
- 2013-16 Mobile Movement Mathematics. *Researcher*  
Project Leader: Michael I. Swart
- 2012-14 TCCS Elementary School Programming, *Researcher*  
Project Leader: Michael I. Swart
- 2011-13 Haptics Grounded  
*Project Leader: Doug Hwang*
- 2011-12 Using Embodiment and LEGO Mindstorms in Physics Learn. *Researcher*  
*Project Leader: Carol Lou*

#### Master Projects Columbia University

- 1997 Spring Irresistible Linkage: Urban Landscape, Caracas, Venezuela & Tartu: Interactive Project.  
*Studio Critics/Advisors: Richard Plunz, Mojdeh Baratloo & Michael Cornard*
- 1996 Fall Unconscious Morningside Heights: Columbia Expansion, Upper West Side, NY  
*Project Advisor: Brian McGrath*  
*Studio Critics: David Grahame Shane & Brian McGrath*
- 1996 Summer Continuity & Velocity: Urban Waterfront from 42nd Street to Battery Park, Manhattan, NY  
*Project Advisor: Alex Wall*  
*Studio Critics: Andrea Kahn & Sandro Marpillero*

#### Master Thesis (Behavior & Environment Tract) University of Illinois

- 1995-96 Learning Environment: Child Care Center, Champaign, Illinois  
*Thesis Advisor: Johann Albrecht*  
*Thesis Critics: James Anderson & Botond Bogнар*

#### Bachelor Thesis Chulalongkorn University

- 1992-93 Chiang Mai School of Architecture: a creative environment, Chiang Mai, Thailand  
*Thesis Advisor: Pramot Tangtieng*  
*Thesis Committee: Lersom Sthapitanonda & Preechaya Sittipun*

### Professionals (selected consultation)

- Civic/Institution 9/11 Memorial & Museum Center, Audio Engineering Society, Avenues School City, Harvest, New York University School of Law, Primary Care Development Corporation, Teach For America, The French Culinary Institute, NY
- Consumer/Products Ameritech, Bedford Communications, Nippon Telegraph & Telephone, Revlon, Saks Fifth Avenue Headquarter
- Financial Albion Investor, Amaranth Group, Argo New York & London, Atlantic Trust Company, Bessemer Trust Company, BKI Bangkok Insurance, JP Morgan Chase, GMAC Credit, Goldberg, Lindsay & Company, Shorenstein Executive Office, Tisco Headquarter, Thailand, Thai Farmer Bank, Thailand, TYKHE Capital
- Retail/Entertainment A&E Television Networks, ABC Networks, Caterini Studios, Constance Tyler, Donna Karan Collection
- Residential LVMH/DKNY, L'Ecole Restaurant and Bake Shop, Thai Privilege Spa, NY /WPP Group  
22 Causeway Residence, 23rd and 25<sup>th</sup> Condominium, NY, 40 Bond Condominiums, NY,

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720 Park Avenue, NY, Baan Chai Ta Lay, Hau Hin, Thailand, Chiang Dao Chiang Mai, Thailand, DC Accommodation, Thailand, Dianne Residence, NY, Noris Residence, Upper West Side NY, Liebowitz Residence, One Beacon Court Penthouse, NY, Ritz Carlton Residence, MD, Sheehan Residence, Upper East Side Penthouse, NY, Stavropoulos Residence, Scottsdale, AZ, Townhouses, Upper East Side, NY

Services BuzzCompany, Globix Corporation, Grand Hyatt, Ideas To Go, Interactive Software, INARCH Office, PLAN Office, Kirkland & Ellis, Saatchi & Saatchi

## SKILLS

Language Fluent in English and Thai

Computer Data Science: SPSS, R Language  
Graphics: Adobe Creative Suite; Photoshop, InDesign, Illustrator, Pagemaker, QuarkXpress  
3D & 4D: AutoCAD, SketchUP, FormZ, 3D Studio, basic Maya  
Moving Images & Video, iMovie, Premiere, Director, and Sound Studio  
Management: MS Projects, Aperture (Facility Management)  
Web & Interactive: Java, basic HTML, iOS, mTropolis (Quark)

Sports Rugby Football, Volleyball and Soccer  
Participated MET Union Matches and International Tournaments Bingham Cup (rugby)  
Titled, Most Versatile Player Club annual award 2004 (rugby)  
Titled, Most Valuable Rookie Club annual award 2003 (rugby)  
Titled, "BB" level NAGVA National Championship XXI, New Orleans 2003 (volleyball)  
Titled, Most Valuable Player and All Star award 2001 (volleyball)  
Titled, Freshmen Championship Chulalongkorn University, 1989 (rugby)

## ORGANIZATIONS/MEMBERSHIPS/COMMUNITY SERVICES

Cognitive Science Society, 2016-  
Association for Psychological Science, 2012-  
American Educational Research Association, 2012-  
LEED AP, Leadership in Energy and Environmental Design Accredited Professional Certification, US Green Building Council, USA, 2009-  
NCARB, IDP Certification National Council of Architectural Registration Boards, USA, 2006-  
Gotham Knights Rugby Football Club, New York, 2003-2006  
9/11 Community Volunteer, the Ground Zero Site, WTC, New York, NY, 2001  
Gotham Volleyball Organization, New York, 2000-  
Volunteer, Hell's Kitchen NA, Friends of The High Line and Habitat For Humanity, New York, 1999-2002  
Registered Architect, Council of Architects, Bangkok, Thailand, 1995-  
The Association of Siamese Architects Under Royal Patronage, Bangkok Thailand, 1994-

## REFERENCES

### Academics

Professor John B. Black (Cognitive Science), Columbia University  
Professor Barbara Tversky (Cognitive Science), Columbia University & Stanford University  
Professor Brian P. McGrath (Architecture and Urban Design), The New School

### Professionals

Matt Gould, Managing Director of Administration, Teach For America  
Kazumi Tanimura, Atelier Lumiere, Inc.  
George Berry, Principal, PLAN Architecture, PLLC  
Amy Roy, Previously as Managing Member at INARCH