JOSE VICENTE TINOCO OCHOA

202 Wurster Hall #2000, Berkeley, CA 94720-2000, United States
+1 510 674 4615
vicente.tinoco@berkeley.edu

EDUCATION

Aug 2016 - Grad. Date	**University of California, Berkeley** Ph.D. Candidate in Landscape Architecture and Environmental Planning. Research focus: (i) Watershed Planning, (ii) Quantitative Methods for Estimating Sediment Loads and Sediment Yields in the River Networks.
Sep 2014	**Katholieke Universiteit Leuven (KU Leuven) and Vrije Universiteit Brussel (VUB), Belgium** MSc. in Water Resources Engineering. Focus: Hydrology, Hydraulics, River Modeling, Irrigation. Thesis: Evaluation of Reservoir Operation Strategies for the Macul Basin, Ecuador
Oct 2011	**Universidad de Cuenca, Ecuador** Ingeniero Civil (BS in Civil Engineering). Thesis: Hydraulic Modeling of River Flow Through Radial Gates for the Flood Control Project: Bulubulu-Cañar, Ecuador

ACADEMIC AWARDS

Jul 8, 2015	Fulbright Faculty Development Program Scholar, Fulbright Ecuador
Aug 2012	SENESCYT Scholarship for Graduate Studies.
Jun 20, 2012	VLIR Scholarship for MSc. studies in the Flanders Region of Belgium.

TEACHING EXPERIENCE

June 2018 - Currently	**Graduate Student Instructor (GSI). University of California, Berkeley** **GSI:** - LDARCH 12. Environmental Science for Sustainable Development (Fall '19, '20) - LDARCH 122 & 222. Hydrology for Planners. (Spring 2019). - LDARCH 253. Landscape Architecture and Environmental Planning Colloquium (Fall 2018) **Reader:** - CIV ENG 100. Environmental Fluid Mechanics. (Summer 2018).
Jan 2015 - Aug 2016	**Lecturer at Universidad de Cuenca – Department of Civil Engineering** *Hydraulic Modelling, Calculus, Physics (Undergraduate course).* Mar – Jul 2016; *Hydrodynamics of Rivers and Lakes (Master course).* Dec 2015 – Jan 2016; *Hydraulics, Calculus, and Physics Lab (Undergrad. courses).* Sep 2015 - Feb 2016; *Hydraulic Modelling (Undergraduate course).* Mar – Jul 2015; *Road Drainage Systems (Master course).* Jan – Feb 2015 and Nov - Dec 2015.
Sep 2014 - Feb 2015	**Teaching assistant at Universidad de Cuenca – Civil Engineering** Lectures and support for the course *Hydraulic Design (Undergraduate course)*

RESEARCH EXPERIENCE

Jan 2020 - May 2020	**Graduate Student Researcher. University of California, Berkeley** Hydrological Project for the U.S. Department of the Interior, National Park Service Tasks: Hydrological data analysis, field work data collection, and report writing

| Sep 2014 - | **Researcher at Universidad de Cuenca, Water Management and Soil Research** |
| Aug 2016 | **Unit (PROMAS [Spanish acronym]).** |

Project: Water control and water distribution project for Los Rios Province, Ecuador.
Activities: - River modeling and reservoir's operation modeling;
- Flow quantification under different climatic conditions;
- Flood analysis; scour analysis,
- Mathematical modeling for allocation water for irrigation.

PROFESSIONAL EXPERIENCE

Aug 2016 -	**Geomorphic & Ecological Fundamentals of River and Stream Restoration, USA**
May 200	Coordinator, teaching assistant, and webmaster.
Aug 2012 -	**Hydraulic Engineer Junior at Carrion Civil Engineering Consulting Firm, ECU**
Sep 2012	Hydraulic design: Small Hydro Power Plant San Francisco, Gualaceo, Ecuador.
Nov 2011 -	**Research Assistant at Universidad de Cuenca, Water Management and Soil**
Sep 2012	**Research Unit (PROMAS).** Cuenca, Ecuador.

- Project: *Flow Regulation Enhancement of the Cuenca River subbasin.*
  - Hydraulic designs of a small dam and still basin.
- Project: *Multi-purpose water resource project "PUMA".*
  - Supervised project designs.
- Project: *"Design and optimization of the irrigation system for the farm at the Universidad de Cuenca at Irquis."*
  - Conducted hydrological field measurements.
  - Hydraulic designs of a water intake, and stream bank protection.
- Project: *"Hydrological and hydraulic studies for the irrigation system Zhidmad."*
  - Hydraulic designs of two reservoirs and of irrigation pipe network.

Sep 2011 -	**Civil Engineer at Aviles Surveying and Engineering Consulting Firm.** Ecuador
Nov 2011	Project: Design and improvement of irrigation network in Chiquintad.
	Tasks: Topographic survey, data processing, and digitization.
Aug 2009 -	**Internship at ETAPA E.P. Dept. of Water Public Works,** Cuenca - Ecuador
Sep 2009	Supervisor Assistant of the Rural Wastewater Treatment Plants
Feb 2009	**Internship at FOPECA S.A., Quito (Ecuador) at Road Construction Division.**
	Supervised hydraulic concrete paving of the road: "Cuenca – Molleturo – Naranjal"

PUBLICATIONS

Tinoco, V., Willems, P., Wyseure, G., and Cisneros F. (2016). Evaluation of reservoir operation strategies for irrigation in the Macul Basin, Ecuador. Journal of Hydrology: Regional Studies, 5:213–225 doi:10.1016/j.ejrh.2015.12.063

Tinoco, V., Willems, P., Wyseure, G., & Cisneros, F. (2016). Modelamiento de operación de embalses para el proyecto integral de riego en la cuenca del río Macul. Maskana, 5, 59-71.

Tinoco, V., Cisneros, F., Pacheco, E., Carrillo, V., Calle, E., Domínguez, J., Gárate, J., & Solís, K. (2016). Modelación física del flujo a través de las compuertas radiales de la derivadora Cañar. Maskana, 5, 107-113

REPORTS

Portoviejo: The City and The River. Integrating Urban Design and Watershed Management on the Portoviejo River, Ecuador. July, 2017. Department of Landscape Architecture and Environmental Planning, University of California, Berkeley.

CONFERENCES AND POSTER PRESENTATIONS AT SCIENTIFIC EVENTS

Tinoco V., Kondolf, M., Sustainable Sediment Management in the Amazon River Basin through Strategic Dam Planning. 3er International Conference on Integrative Sciences and Sustainable Development of Rivers. Lyon. France. June 6, 2018.

Tinoco V., Kondolf, M., Hydroelectric dams in the Andes: How sustainable? Council of Educators in Landscape Architecture. Beijing, China. May 27, 2017

Tinoco V., Kondolf, M., The New Wave of Hydroelectric Dams in the Andes: How Sustainable? ASCE - EWRI. Sacramento, USA. May 22, 2017

Tinoco, V., Liu D., ReGreening Grayson Creek: the Next 50 Years. Poster presentation and facilitation of public meeting. Pleasant Hills, CA. May 15, 2017.

Tinoco V., Aguirre, D., Berrezueta, A. "Natural river bank protection against scour. Case study: Tomebamba River, Cuenca, Ecuador." Poster presentation at Primer Congreso Ecuatoriano de Restauración de Paisajes. Loja, Ecuador. 5 -7 Abril, 2016.

Tinoco V., Castro S., Lenhart C., Cisneros, F. "National Strategies towards River Restoration". Poster presentation at Primer Congreso Ecuatoriano de Restauración de Paisajes. Loja, Ecuador. Abril 5 -7, 2016.

Tinoco, V., Cordero P., Cisneros, F., Cisneros P. *A model for developing reservoir operation rules for irrigation projects.* Conference presented at the 3rd Inter-Regional CIGR Conference on Land and Water Challenges: "Tools for developing". La Estanzuela, Colonia, Uruguay. September 28 - 30, 2015

Tinoco, V., Willems P., Wyseure, G., Cisneros F. *Evaluation of Reservoir Operation Strategies for the large irrigation scheme at the Macul Basin, Ecuador.* Poster presentation at International Expert Symposium "Coping with Droughts" 'Building a Community of Practice on Drought Management Tools'. CAZALAC – UNESCO, Santiago, Chile. November 19 – 21, 2014.

Tinoco, V., Willems P., Wyseure, G., Cisneros F. *Reservoir Modeling for the Integral Irrigation Project at Macul River Basin.* Conference presented at Civil Engineering Congress, Universidad de Cuenca, Ecuador. December 3 - 5, 2014.

Tinoco, V., Cisneros, D. Pacheco E., Carrillo V., Calle E., Domínguez, J., Garate, J., Solís, K. *Physical modeling of the flow through radial gates for the flood protection scheme system in the Cañar River.* Conference presented at Civil Engineering Congress, Universidad de Cuenca, Ecuador. December 3 - 5, 2014.

LANGUAGES AND COUNTRY EXPERIENCE

Spanish (native), English (proficient), Portuguese (Reading).

SKILLS IN SUPPORTING TOOLS FOR PLANNING, ENGINEERING, AND DESIGN

Programming languages: Matlab, TeX
GIS and remote sensing: ArcGIS, ENVI.
Surface water modeling: SWAT, HEC-HMS, VHM, development of lumped conceptual models.
River modeling: MIKE 11, MIKE GIS, IBER, HEC-RAS
Reservoir modeling: HEC-ResSim and development of models for this purpose.
Weather: ETo Calculator, Rainbow
Irrigation: AquaCrop, UpFlow
Hydrometry and Topographic Surveying: Trained for field and laboratory work.
Irrigation: AquaCrop, UpFlow
Computer aided design/engineering: AutoCAD, Epanet, Microsoft Excel
Editing and Publishing: Microsoft Word, InDesign, GoogleDocs, WordPress, TeX
Computer graphics: InDesign, Photoshop
Teaching supportive tools and platforms: Canvas, BCourses, PowerPoint

OTHERS: LEADERSHIP

2017-2018 **University of California, Berkeley**
2018-2019 PhD Student Representative at the CED Graduate Student Council
2012-2013 **KU Leuven and VUB, Belgium**
2013-2014 Master Student Representative at the Program Education Committee
2006-2007 **Universidad de Cuenca, Ecuador**
Treasurer at the Students Association of Civil Engineers, period 2005 – 2006.
Student representative at 10th semester Civil Engineering.

COMMUNITY SERVICES

Sep 2005 - Volunteer Firefighter at *Benemérito Cuerpo de Bomberos Voluntarios de Cuenca*,
May 2008 Ecuador.

Oct 2009 - Catechist at San Roque Parish, Cuenca.
Jul 2010