

MARCO TERZARIOL

710 Argonne Ave NE Apt 1
Atlanta, Georgia, USA

Primary contact: 404-431-2322
mterzariol3@gatech.edu

CIVIL ENGINEER, MSc, EIT

*Structural and Seismic Design - Geotechnical Design - Environmental Engineering Design
Topographic Surveying - Ground Investigation*

Personal Details

Date of Birth: August 14th, 1985
Birth Place: Córdoba, Argentina
Nationality: Dual Argentinian/Italian citizenships
Gender: Male
Marital Status: Single
Languages: Spanish (native); professional proficiency in English; conversational in Italian; practical knowledge of French and Portuguese.

Education

MSCE – May 2013 – GPA: 3.90
Civil Eng. - Graduated with Honors - Feb 2009 - Grade: 8.16 – *Summa cum laude*
Universidad Nacional de Córdoba (UNC) - Córdoba, Argentina

Awards: 2009 Special Mention (*Summa cum laude*) from Universidad Nacional de Córdoba, Arg; 2007 PROMEI (National Education Secretary) Scholarship.

Teaching Experience (Univ. Of Córdoba, Arg.): Teaching Assistant in Hydrology and Water Processes (2007-2008); Teaching Assistant in Geotechnics (2009-2010); Teaching Assistant in Hiperstatic Structures (2009 to 2011).

Research Projects (Staff member): "Behavior of the Loess in Provincia de Córdoba" (2009-2011), "Loessic Silt use as core material of an Earth Dam" (2009-2011) and "Effect of thermal history on properties of hydrate core samples" (2011-present).

Academic Consulting at Georgia Tech: Fly ash characterization – Static liquefaction (GeoSyntec Consultants-EPRI).

Publications:

Contributing author of:

- Terzariol, R.; **Terzariol, M.**; Stassi, M. – "Evaluación Estructural Sísmica de una Torre de Toma para La Presa "Las Tunas" Provincia de Catamarca". 8 EIPAC, Mendoza, Septiembre 2009.
- **Terzariol, M.** and M. Zeballos (2010) - "Uso de suelo loesico como material de presa de materiales sueltos", XX CAMSIG, Octubre 2010.
- Santamarina, J.C.; Dai, S.; Jang, J.; **Terzariol, M.** (2012) – "Pressure Core Characterization Tools for Hydrate-Bearing Sediments". Scientific Drilling, 14, 44-48.
- Sapporo Scientific Team (Georgia Tech: Dai, S.; Jang, J.; **Terzariol, M.**; Papadopoulos, E. and Santamarina, J.C.; AIST: Konno, Y; Yoneda, J. and Nagao, J.; JOGMEC: Suzuki, K. and Fujii, T.; USGS: Winters, W.J.; Waite, W.; Mason, D. and Bergeron, E. (2013) – "Pressure Core Analysis Tools used to Characterize Hydrate-Bearing Sediments from the Nakai Trough", Fire in the Ice, 13, 2, 19-22.
- The PCCT Development Team (Georgia Tech: Santamarina, J.C.; Dai, S.; Jang, J.; **Terzariol, M.** and Papadopoulos, E.; USGS: Winters, W.J.; Waite, W.; Mason, D. and Bergeron, E.) (2012) – "Pressure Core Characterization Tools to Enhance Gas Hydrate Field Programs", Fire in the Ice, 12, 2, 7-9.

Computer Skills

Business Productivity Software:	EndNote
Structural Programs:	SAP2000 2D and 3D models (Static, dynamics and response spectral analysis); RAM Advanse; COMSOL
Geotechnical Programs:	PLAXIS; GeoStudio
Graphic Software:	AutoCad; 3D Studio Max
General Engineering:	MathCad; MatLab; NASGRO

Organizations and Society Affiliations

- Sociedad Argentina de Ingenieria Geotecnica (Argentinian Geotechnical Society)
 - ISSMGE (International Society for Soil Mechanics and Geotechnical Engineering)
 - Student Member ASCE - Geo Institute
 - Vice President of the Geo-Society of Graduate Students – Georgia Tech – 2012-2013
 - President of the Geo-Society of Graduate Students – Georgia Tech – 2013-2014
 - Member of the CEE Strategic Planning Committee 2012-2013 at Georgia Tech
 - Webmaster of Particulate Media Research Lab, Georgia Tech, 2012-2014
 - GRS (Hydrate Bearing Sediments) co-chair, 2014-2016
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Development of Unique Devices

- **Direct Shear Chamber:** Geotechnical device for the measurement of gas hydrate bearing sediment properties recovered at high water pressure – First deployed in Japan 2013.
 - **In-situ Characterization Tool for Deep Sediments:** Geotechnical device for the characterization of physical properties of hydrate bearing sediments
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Professional Experience

Broad experience since 2005, including:

- **Assistant in geotechnical and materials laboratory** (in more than 50 projects): routine laboratory tests; special tests; unconfined compression tests on concrete; field tests.
- **Structural analysis and design** (in more than 30 projects): static and dynamic analysis on SAP2000 (on bridges, houses, foundations, retaining walls and concrete buildings of more than 15 stories), PLAXIS (bridges, tunnels and water channels), COMSOL (tools and experimental design). Structural, foundations and seismic design on diverse structures including bridges (1 and 2 spans), concrete houses and buildings (to 17 stories).
- **Hydrologic, hydraulic and geometric design** (in more than 5 projects): of culverts, bridges (1 and 2 spans) and water channels.
- **Geotechnical** (in more than 20 projects): Ground investigation; slope stabilities, foundations and retaining walls design; topographic survey; geological data collection and earth dams geometric designs.