

Curriculum Vitae

Ph.D. Scholar
Department of Civil Engineering
Indian Institute of Technology Madras,
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Tom Damion

EDUCATION

- **Ph.D. in Civil Engineering (2018 July-till date)** **9.00/10**
Indian Institute of Technology Madras, Chennai, Tamil Nadu, India
Dissertation title: “*Acid Resistance of Calcium Sulfoaluminate Cements.*”
- **M.Tech. in Structural Engineering and Construction Management (2016-2018)** **8.89/10**
Mar Athanasius College of Engineering, Kothamangalam, Kerala, India
Thesis title: “*Study on the Properties of Aerated Concrete with PVC granules.*”
- **B.Tech. in Civil Engineering (2012-2016)** **8.04/10**
Mar Athanasius College of Engineering, Kothamangalam, Kerala, India
Thesis title: “*Use of Plastic Bottle Strips as an Admixture in the Soil Sub-grade for Road Construction.*”
- **Higher Secondary School(2010-2012)** **90%**
De Paul Public School, Thodupuzha, Kerala, India (CBSE)
- **Secondary School (2009-2010)** **9.8/10**
De Paul Public School, Thodupuzha, Kerala, India (CBSE)

SCHOLARSHIPS, AWARDS & ACHIEVEMENTS

- Half-Time Research Assistantship, Ministry of Education, Govt. of India 2018- till date
- Satisfied the particular criteria for exemption from the Comprehensive Written exam by securing 8.5 above CGPA from six courses during the coursework period at IITM.
- Secured best paper award for the paper titled “Study On the Properties of Aerated Cement Paste Incorporating Fly Ash and PVC Granules” at National Conference on Recent Emerging Advances in Civil Engineering and Technology, Vidya Academy of Science and Technology, Thrissur, on 2018, April.
- Half-Time Teaching Assistantship, AICTE, Govt. of India, 2016-2018
- Topper for the NPTEL course “Hydration Porosity and Strength of Cementitious Materials” in 2017
- Consistent GATE percentile above 95 in 2016 and 2017
- Elite grade for the NPTEL course “Project Planning and Control” in 2016
- Received Golden Jubilee Scholarship of Diocese of Kothamangalam, which was awarded to the selected meritorious professional students in Kerala -from a competitive exam- both for B.Tech and M.Tech.
- Merit cum Means scholarship of Ministry of Minority Affairs, Govt. of India —for B.Tech.

PUBLICATIONS

1. **Tom Damion** and Dr. Piyush Chaunsali, “Acid Resistance of CSA-Based Cementitious System” (poster and flash presentation) at 74th RILEM Week and 40th Cement and Concrete Science Conference, 31st August - 4th September 2020, University of Sheffield, UK.
2. **Tom Damion** and Dr. Piyush Chaunsali, “Durability of Calcium Sulfoaluminate based binders “(poster), Concrete Research in India, December 2018
3. **Tom Damion**, Dr. Elson John and Indu Susan Raj (2018, 11th April), “Study On the Properties of Aerated Cement Paste Incorporating Fly Ash and PVC Granules”, National Conference on Recent Emerging Advances in Civil Engineering and Technology, Vidya Academy of Science and Technology, Thrissur, page 9
4. **Tom Damion**, Muhammed Ashique.M .E, Paul Immanuel Varkey, Keerthi P.S., Dr.Solly George “Use of Plastic Bottle Strips as an Admixture in the Soil Sub-grade for Road Construction”, *IRJET*, April 2016, Volume 3, issue 4.
5. **Tom Damion** and Dr. Solly George, “Comparative study on the effect of different waste materials on weak soil for better pavement Sub-grade” at KETCON 2017

RESEARCH INTERESTS

- Concrete durability and biodeterioration
- Cement chemistry
- Sustainable building materials
- Design of experiments

TEACHING AND RESEARCH EXPERIENCE

• Research Scholar (Full time), IIT Madras	July 2018 – to date
• Graduate teaching Assistant, IIT Madras	July 2018 - to date
• Graduate courses taught	
- Construction Materials Lab (CE 5090)	Jan – May 2019
• Graduate Assistant, HOD, Department of Civil Engineering	June 2019- May 2020
• Teaching Assistant, MACE, Kothamangalam	July 2016-June 2018
Teaching Experience: NPTEL MOOC course on “Advanced Topics in the Science and Technology of Concrete”, Jan – May 2020	
- TA for the course & Liaising with the NPTEL staff	
- Assisting in scheduling, preparing and organising the course materials, assignments.	
- Doubt clearance in the online platform	

EVENTS ORGANISED / VOLUNTEERSHIP/ PARTICIPANTSHIP

1. Lab Visit Coordinator

Actively organised and participated in Explaining experiments of Materials Performance of Civil Engineering Materials laboratory during divisional and CEA fest lab visits, IIT Madras, 2018- till date.

2. MS-Ph.D. Admissions

Assisted in certificate verification for M.S. and Ph.D. Admission process, Department of Civil engineering, IIT Madras, May and November 2019.

3. NPTEL Advanced topics in the science and technology of concrete, 2020

Assisted in evaluating the NPTEL courses Advanced topics in the science and technology of concrete 2020, Department of Civil Engineering, hosted by NPTEL, IIT Madras.

4. Kravmaga Workshop at IITM, 2019

Participated in a self-defence workshop conducted by Kravmaga, Tamil Nadu in collaboration with Disaster Management committee, IITM on 19th October 2019

5. Workshop — Theory and applications of ICP-OES

Participated in the workshop ‘Theory and applications of ICP-OES’ jointly organised by Sophisticated Analytical Instrument Facility (SAIF), IITM and Perkin Elmer (India) Pvt. Ltd. 8th November 2019

6. Workshop — Art of Thesis Writing

Participated in the workshop ‘Art of Thesis Writing’ jointly presented by Department of Visual Communication, Loyola College and Rehoboth Academic Services at Loyola College, Chennai.

7. ICI-IMPRINT Seminar — Volunteer

Volunteered one day ICI-IMPRINT Seminar on ‘Structural and Durability Performance of Post Tensioned Bridges and Buildings’ 12th April, 2019.

8. Advanced Concrete Technology Workshop 2019

Assisted in conducting the Advanced Concrete Technology Workshop 2019 as an Organiser. The 5-day workshop hosted technical sessions on concrete technology for faculty and students from several universities across south India.

9. ICI – Symposium – Volunteer

Volunteered an international symposium on Recent Advances in Concrete Construction and Preservation, 3rd K P Pradeep Symposium on Pioneering Science and Development for Construction, hosted by Indian Concrete Institute, 18th December 2018.

10. CEA Fest 2017 and 2018 — Campus Ambassador of MACE

Served as the campus ambassador of M.A. College of Engineering, Kothamangalam, Kerala for the CEA Fest — the annual technical event of the Civil Engineering Association of IIT Madras

11. Art of Sustainable Design and Engineering — FDP 2017

Participated in the Faculty Development Programme on ‘Art of Sustainable Design and Engineering’ on March 22-24, 2017 at M.A. College of Engineering, Kothamangalam, Kerala

12. Entrepreneurship Orientation Programme (EOP), 2015

Participated in Entrepreneurship Orientation Programme (EOP) organised by KITCO. Ltd. at M.A. College of Engineering, Kothamangalam, Kerala on 23rd July-25, 2015.

13. Takshak 2014, Annual Techfest of MACE, Kothamangalam — Coordinator

Organised Takshak which is the annual Techfest of M.A. College of Engineering, Kothamangalam, Kerala in the year 2014, being in various roles in the organising committee.

14. Sanskriti 2015, National level cultural fest — Coordinator

Organised Sanskriti which is the national level inter-college arts and cultural Fest of M.A. College of Engineering, Kothamangalam in the year 2014, being in various roles in the organising committee.