

## PERSONAL BACKGROUND

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**Name** : Mohamad Afiq Bin Mohamed Huri  
**Address** : Chemistry Department, Faculty of Science, UTM  
**Nationality** : Malaysian  
**Current Occupation** : Senior Lecturer  
**Current Administration**: Coordinator of Forensic Science Program  
**Phone Number** : +6019-4432697  
**Email** : mohaamadafiq@utm.my

## EDUCATIONAL BACKGROUND

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- 2012-2017** : Doctor of Philosophy (Chemistry), Universiti Teknologi Malaysia (UTM),  
**Thesis:** Development of An Explosive Information System for The Chemical Composition Profile of Explosives
- 2008-2011** : Bachelor of Science (Industrial Chemistry), Universiti Teknologi Malaysia (UTM),  
Johor.  
CGPA 3.80  
**Thesis:** Forensic Analysis of High-Explosive Residue on Various Type of Cloth Using High Performance Liquid Chromatography
- 2008 (Jan-May)**: Science and Engineering Foundation, Program Express MARA-UTM, Johor.  
CGPA 3.76  
Malaysian University English Test (MUET): Band 3
- 2006-2007** : Maktab Rendah Sains Mara (MRSM) Merbok Kedah.  
SPM: 8A1, 2B3

## ACADEMIC DISCIPLINE

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- Analytical Chemistry
- Forensic Chemistry
- Crime Scene Investigation
- Forensic Instrumentation

## RESEARCH AREA/INTEREST

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- Analytical Chemistry
- Forensic Chemistry
- Separation Method
- Discrimination Analysis
- Drug Analysis
- Explosive Analysis
- Chemometric
- Environmental Analysis

## AWARDS

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**2019 – Bronze-** Inatex 2019

**2016 - 1<sup>st</sup> Place Oral Presenter** – 1<sup>st</sup> International Conference on Forensic Science, Forensic

Medicine and Criminology

**2012 - WAMY award** - 49th UTM Convocation Ceremony

**2012 - Academic Excellent Award** (Bachelor of Science, Industrial Chemistry), Faculty of Science 2012

**2012 - Best Presenter** - "Symposium Projek Sarjana Muda (PSM)"

**2012 - Anugerah Putra Cemerlang** - (Academic Award), Kolej Rahman Putra 2012

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|--|---|
| <input type="checkbox"/> Semester I, 2009/2010 - GPA: 3.85 | <input type="checkbox"/> Semester II, 2009/2010 - GPA: 3.84 |
| <input type="checkbox"/> Semester I, 2010/2011 - GPA: 3.96 | <input type="checkbox"/> Semester II, 2010/2011 - GPA: 3.50 |
| <input type="checkbox"/> Semester I, 2011/2012 - GPA: 3.81 | <input type="checkbox"/> Semester II, 2011/2012 - GPA: 3.84 |

## WORKING EXPERIENCE

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### 2018-today

Senior lecturer at Faculty of Science, UTM.

### 2012-2016

Freelance photographer and designer

### 2013-2015

Research Assistant – FRGS Research Grant (4F200)

**2011:** 16 May -22 July 2011

Industrial Training – Jabatan Kimia Malaysia Cawangan Perak

## PUBLICATION AND CONFERENCE PRESENTATION

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### Publications

**Estimation of stature from hand and handprint measurements in a monoethnic Maldivian population** 2022

Ihsan Mohamed, Mohamed Saleem, Nuranis-Raihan Zulkifly, Dzulkiflee Ismail, Mohamad Afiq Mohamed Huri, Salina Hisham, Naji A Mahat  
Australian Journal of Forensic Sciences

**Box–Behnken design optimisation of a green novel nanobio-based reagent for rapid visualisation of latent fingerprints on wet, non-porous substrates** 2021

Aida Rasyidah Azman, Naji Arafat Mahat, Roswanira Abdul Wahab, Wan Azlina Ahmad, Jive Kasturi Puspanadan, Mohamad Afiq Mohamed Huri, Mohammad Rahim Kamaluddin, Dzulkiflee Ismail  
Biotechnology letters 43 (4), 881-898

**Counterfeit one hundred malaysian ringgit banknotes discrimination using chemical imaging inspection and pattern recognition** 2021

Nur Farah Dina Ajid, Foo Keat How, Naji Arafat Mahat, Wan Nur Syuhaila Mat Desa, Mohd Rahim Kamaluddin, Mohammad Afiq Mohamed Huri, Hasmerya Maarof, Dzulkiflee Ismail  
Australian Journal of Forensic Sciences, 1-15

**Characterisation and computational analysis of a novel lipase nanobio-based reagent for visualising latent fingerprints on water-immersed glass slides** 2020

AR Azman, NA Mahat, RA Wahab, WA Ahmad, MAM Huri, AAA Hamid, ...  
Process Biochemistry

**Statistical Optimization and Characterization of Acoustically Extracted Ananas** 2020

- Comosus Peel Powder with Enhanced Antioxidant Capacity**  
NA Yahya, RA Wahab, MA Hamid, NA Mahat, MAM Huri, N Attan, ...  
Jurnal Teknologi 82 (4)
- Estimation of stature from hand and handprint measurements in a monoethnic Maldivian population** 2020  
I Mohamed, M Saleem, NR Zulkifly, D Ismail, MA Mohamed Huri, ...  
Australian Journal of Forensic Sciences, 1-19
- Relevant visualization technologies for latent fingerprints on wet objects and its challenges: a review** 2019  
AR Azman, NA Mahat, RA Wahab, WA Ahmad, MAM Huri, HH Hamzah  
Egyptian Journal of Forensic Sciences 9 (1), 1-13
- Composition and life cycles of necrophagous flies infesting wrapped and unwrapped rabbit carcasses in Johor for forensic applications** 2019  
NA Mahat, NN Zulkifili, MAM Huri, AR Azman  
AIP Conference Proceedings 2155 (1), 020024
- Capillary Electrophoresis for The Analysis of Antidepressant Drugs: A Review** 2019  
AS Abdul Keyon, M Miskam, NS Ishak, NA Mahat, MA Mohamed Huri, ...  
Journal of separation science 42 (4), 906-924
- Cuticular Hydrocarbons of Pupal Cases of Chrysomya Megacephala (Fabricius) and Its Possible Use for Estimating Postmortem Interval** 2019  
JJ Naji Arafat Mahat Nurul Nadhirah Nasir, Mohamad Afiq Mohamed Huri, Reena ...  
Malaysian Journal of Analytical Sciences 23 (3), 548-560
- Ternary Blended Chitosan/Chitin/ Nanosupport for Lipase Activation and Stabilization** 2019  
INA Rahman, RA Wahab, NA Mahat, J Jamalis, MAM Huri, C Kurniawan  
Arabian Journal for Science and Engineering, 1-11
- Chemical Profiling of Selected Explosives Using High Performance Liquid Chromatography and Ion Chromatography** 2017  
MAM Huri, UK Ahmad, R Ibrahim, M Omar  
J. Adv. Res. Appl. Mech 30, 1-16
- A Review of Explosive Residue Detection from Forensic Chemistry Perspective** 2017  
MAM Huri, UK Ahmad, R Ibrahim, M Omar  
Malaysian Journal of Analytical Sciences 21 (2), 267-282
- Determination of Anionic Profiling of Improvised Explosive Devices from Different Types of Low Explosive Material** 2014  
MAM Huri, UK Ahmad, M Omar  
Malaysian Journal of Fundamental and Applied Sciences 10 (3)
- Forensic Analysis of High Explosive Residues from Selected Cloth** 2014  
MAM Huri, UK Ahmad  
Malaysian Journal of Analytical Sciences 18 (1), 68-77
- Forensic Analysis of Inorganic Anions from Post-Blast Pyrotechnic Residues** 2013  
UK Ahmad, CY Liew, MAM Huri, SAAS Abdullah  
Jurnal Teknologi 62 (3)

### Conference Presentations

- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, Roliana Ibrahim and Mustafa Omar.  
MYFED: An Explosive Database System for Forensic Data Retrieval. National Forensic Science Symposium 2017. 27 April 2017. Petaling Jaya, Selangor.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, Roliana Ibrahim and Mustafa Omar.  
Analysis of Organic High Explosives Using Gas Chromatography – Tandem Mass Spectrometry. 16<sup>th</sup> Asia Pasific International Symposium on Microscale Separation Analysis. 7-10 November 2016. Johor Bahru, Johor.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, Roliana Ibrahim and Mustafa Omar.  
Organic Chemical Profiling of Explosives Using High Performance Liquid Chromatography Diode-Array Detection. 1st International Conference on Forensic Science, Forensic Medicine and Criminology 2016. 22-24 February 2016.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, Roliana Ibrahim and Mustafa Omar.  
Explosive Chemical Profiling by Using High Performance Liquid Chromatography and Ion Chromatography. International Science Postgraduate Conference 2016. 22-24 February 2016. UTM Johor Bahru, Johor.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, and Mustafa Omar.  
EXPLOSIVE DETECTION: A Challenge for Forensic Chemistry. National Forensic Science Symposium 2015. 18-19 March 2015. Petaling Jaya, Selangor.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, and Mustafa Omar.  
High Performance Liquid Chromatography Signature of Selected Plastic Explosive for Discrimination of High Explosives. 27<sup>th</sup> Regional Symposium of Malaysia Analytical Sciences 2014. 8-10 December 2014. KSL Resorts, Johor Bahru, Johor.
- Megat Mohd Faris, **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad and Soo Me Tong.  
Profiling of Organic Explosives from Pre and Post-Blast Samples Employing High Performance Liquid Chromatographic Techniques. 24-25 November 2014. Hotel Fort Canning, Singapore.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, and Mustafa Omar.  
Trend of Bombing Terrorism and Explosive Analytical Study In Asian Region. The 3<sup>rd</sup> Academic Conference on Natural Science for Master and PhD Students From Asean Countries. 11-15 November 2013, Phnom Penh, Cambodia.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, Roliana Ibrahim and Mustafa Omar.  
Ion Chromatography for Chemical Composition Profile of Improvised Explosives. 11<sup>th</sup> Indo Pacific Association of Law, Medicine and Science Congress 2013. 7-10 October 2013 Shangrila Hotel, Kuala Lumpur.
- **Mohamad Afiq Mohamed Huri**, Megat Mohd Faris, Umi Kalthom Ahmad and Mustafa Omar.  
Determination of Anionic Profiling of Improvised Explosive Devices from Different Types of Low Explosive Material. 4<sup>th</sup> International Conference and Workshops on Basic and Applied Sciences. 3-5 September 2013, Senai, Johor.
- **Mohamad Afiq Mohamed Huri**, Umi Kalthom Ahmad, Liew Choon Yoong and Mustafa Omar  
Development of A Field Kit for The Rapid Detection of Selected Explosives. 4<sup>th</sup> International Conference for Young Chemist 2012. 30-2 February 2013, Universiti Sains Malaysia, Penang.
- **Mohamad Afiq Mohamed Huri** and Umi Kalthom Ahmad  
Forensic Analysis of High Explosive Residues from Selected Cloth. International Seminar of Analytical Sciences 2012. 11-13 November 2012, Medan, Indonesia

### COURSES AND SEMINAR ATTENDED

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- ☐ **LYX Hands On Writing Skills Workshop for UTM Thesis and Journals**  
 Organized by: Faculty of Engineering, UTM, Johor. 22-23 June 2016
- ☐ **Workshop on Journal Publication Workshop**  
 Organized by: Water Research Alliance, UTM Johor. 3-5 November 2014
- ☐ **1 Day Visual Basic Crash Course**  
 Organized by: Centre for Student Innovation. UTM Johor. 19 April 2014
- ☐ **Chromatography Technologies and Application Seminar**  
 Organized by: IT Tech. 21 January 2014
- ☐ **Skill Workshop for Young Scientist and Engineers**  
 Organized by: Faculty of Science, UTM Johor, 12 January 2014
- ☐ **Pre Congress Workshop in Crime Scene Investigation**  
 Organized by: Forensic Science Society of Malaysia. Shangri-La Hotel. Kuala Lumpur. 6 October 2013.
- ☐ **4<sup>th</sup> International Conference and Workshop on Basic and Applied Sciences**  
 Organized by: UTM Johor Bahru. 3-5 September 2013
- ☐ **1-Day Course on Gas Chromatography Method Development and Troubleshooting**  
 Organized by: Nanotechnology Research Alliance, Faculty of Science UTM Johor. 5 March 2013
- ☐ **Degree++ Courses, 2012**
  - ☐ Occupational Safety and Health Awareness (OSHA)
  - ☐ How to Manage Your Personal Finance
  - ☐ How to Get Yourself Employed
  - ☐ ISO 9001:2008 Quality Management System Requirement
- ☐ **Kursus Keselamatan dan Kesihatan Pekerjaan (OSH)**  
 Organized by: Jabatan Kimia Malaysia Cawangan Perak, 18-21 July 2011

## EXTERNAL CURRICULAR ACTIVITIES

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Senior Lecturer 2018-today		
Activities	Post	Organizer
Science & Technology Students Association 2018-today	Advisor	FS-UTM
Science Speaker 2022	Invited Speaker	FS-UTM
Mental Health Webinar 2021	Moderator	FS-UTM
Survival Alchemy 2020	Facilitator	FS-UTM
First Year Experience 2019	Coordinator	FS-UTM
Johor Chemistry Carnival 2019	Facilitator	FS-UTM
Survival Alchemy 2019	Coordinator	FS-UTM
Faculty of Science Sports Day 2019	Coordinator	FS-UTM
First Year Experience 2018	Coordinator	FS-UTM

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## Undergraduate (2008-2011)

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<b>Activities</b>	<b>Post</b>	<b>Organizer</b>
Welcoming Week for Express Mara-UTM 2011/2012, 29-31 December 2011	Facilitator	HEMA-UTM
Helping Hands Program 2011, Pertubuhan Kebajikan Anak Yatim Islam Pontian Johor, 15 October 2011	Chief of Facilitator	PESAT-FS-UTM
Majlis Perujian Tilawah Al-Quran MAKUM 2011, 7-9 October 2011	Vice Director	KPKK, KPM, UTM
Festival Inovasi & Kreativiti UTM “UTMost Imagination 2011’	Committee	UTM
Motivational Camp for Express-Mara-UTM Students 2011, Teluk Gorek, Johor, 18-29 Februari 2011	Facilitator	FS-UTM
Welcoming Week for Express Mara-UTM 2010/2011, 13-15 January 2011	Facilitator	HEMA-UTM
Majlis Perujian Tilawah Al-Quran MAKUM 2010, 8-10 October 2010	Multimedia Exco	UTM
Persatuan Sains dan Teknologi Faculty of Science 2010	Exco of Spiritual	FS-UTM
Kem Bina Pemimpin UTM-UMP, PESAT-SCIETEXS, 2-3 October 2010	Protocol Committee	PESAT-SCIETEXS
Futsal Competition 2010, 1 August 2010	Safe and Health Committee	PESAT, FS-UTM
First Year Experience 2010 “Excitement with Science”, Faculty of Science UTM, 17 July 2010	Multimedia Committee	PESAT, FS-UTM
Global Outreach Programme to Indonesia, FMJPA, UNPAD, 22-28 June 2010	Sponsorship Committee	PESAT, FS-UTM
Annual Dinner Celebration Faculty of Science 2010, 6 Mac 2010	Technical Committee	PESAT, FS-UTM
Sparks for Youth “Team-Building Camp” 2010	Spiritual Committee	PESAT, FS-UTM
Program Khidmat Masyarakat Rahman Putra 2009, 1-7 Disember 2009	Participant	KRP-UTM-College
Ihya Ramadhan 2009, 19-16 September 2009	Chief of Multimedia Unit	KRP-UTM-College

#### **Secondary School (2004-2008)**

<b>Activities</b>	<b>Post</b>	<b>Organizer</b>
Persatuan Bahasa Melayu Maktab Rendah Sains Mara Merbok	Presiden	MRSM-Merbok

Koperasi Maktab Rendah Sains Mara Merbok	Presiden	MRSM-Merbok
Badan Rohani dan Dakwah Maktab Rendah Sains Mara Merbok	Member	MRSM-Merbok
Program Pendidikan Koperasi MRSM Zon Utara, 10-12 June 2008	Participant	Maktab Kerjasama Malaysia
Jejak Warisan Badan Beruniform MRSM Merbok, 10-2 May 2008	Participant	MRSM-Merbok
North Zone MRSM Malay Language Elocution Competition, 25-28 March 2008	Participant	MRSM-Merbok
Bonding Program by UITM Kedah, 21 March 2008	Participant	MRSM-Merbok
Malay Poem Writing Competition	Participant (1 <sup>st</sup> Place)	MRSM-Merbok
MRSM Language Week 2007, 25- 4 October 2007	Committee	MRSM-Merbok
Indoor Game Clubs Methodist English School, 2006	Vice Treasurer	MESAT Secondary School
Prime Leadership Seminar Methodist English School 2006	Participant	MESAT Secondary School
Prefect of Methodist English School 2004	Member	MESAT Secondary School

#### **Primary School (2008-2011)**

<b>Activities</b>	<b>Post</b>	<b>Organizer</b>
Scout Club, Primary School of Methodist English School	President	MESAT Primary School
Prefect of Primary Methodist English School (2001-2003)	Member	MESAT Primary School

## **PROFESSIONAL GOALS**

Work with passion, hard work, integrity, and endeavour to hone my skills in the workplace that provides an opportunity to apply knowledge, excellent professional growth, and exposure while being innovative and resourceful.

## **REFEREE**

Dr Umi Kalthom Ahmad,  
Ex Assoc. Prof,  
PhD Supervisor,  
Faculty of Science,  
Universiti Teknologi Malaysia,

Brig. Gen. Mustafa Omar,  
Co-PhD Supervisor,  
Bahagian Teknologi Persenjataan  
Science Technology Research Institute for Defence  
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,81310 UTM Johor Bahru,  
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