Strengths and weaknesses of forensic accounting: an implication on the socio-economic development

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Abstract

Purpose – This review aims to provide an understanding of the strengths and weaknesses of forensic accounting education and profession.

Design/methodology/approach – This paper reviews published forensic accounting studies to explore forensic accounting strengths and weaknesses.

Findings – The strengths of forensic accounting are its benefits to students and accounting professionals, the significant need and increasing demand, the new career channels and the reduction of fraud. The weakness factors are the lack of regulation, the lack of control over the profession entry, the lack of agreement on how to teach forensic accounting, the lack of specialized research journals, the misconception of its intrinsic aim, the lack of highly qualified practitioners and educators and the lack of public recognition and occupation.

Practical implications – It is hoped that this structured investigation of the factors relevant to the current and future status of forensic accounting education and profession will provide a sufficient overview of the critical issues and concerns that are important to be known for understanding and advancing the vital application of forensic accounting on the Socio-Economic Development. It is anticipated that this paper has an impact on future policy that ultimately contributes to improving business and limit fraud incidents, thus, it can contribute to business and socio-economic development.

Originality/value – The literature on forensic accounting is extensive and varied. However, there is a lack of comprehensive understanding of the strengths and weaknesses of forensic accounting. This study provided policymakers with a comprehensive understanding of forensic accounting.

Keywords Forensic accounting, Strengths and weaknesses, Education and profession

Paper type Research paper

Introduction

The endeavors to improve forensic accounting education and profession have been associated with different levels of support and failure (Arslan, 2020; Crumbley, 2019;

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Journal of Business and Socioeconomic Development Vol. 1 No. 2, 2021 pp. 135-148 Emerald Publishing Limited e-ISSN: 2635-1692 p-ISSN: 2635-1374 DOI 10.1108/JBSED-03.2021.0026

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Received 6 March 2021 Revised 11 June 2021 Accepted 15 June 2021 JBSED 1,2 Honigsberg, 2020; Howieson, 2018; Sahdan *et al.*, 2020; Yang and Lee, 2020). The education and regulation of the forensic accounting profession have been examined in the prior literature (Alshurafat *et al.*, 2019, 2020; Curtis, 2008a, b; Fleming *et al.*, 2008; Heitger and Heitger, 2008; Jones and Dosanjh-Zucker, 2018; Kranacher *et al.*, 2008; Rezaee and Wang, 2019; Souza, 2017; Tarr *et al.*, 2016). However, the previous studies lack a full understanding of the benefits from and obstacles to adopt and foster forensic accounting education and profession. This paper generates an understanding of the strengths and weaknesses of forensic accounting based on the evidence that was collected from a literature review method.

Although there are prior reviews of the forensic accounting literature (Botes and Saadeh, 2018; Howieson, 2018; Huber and DiGabriele, 2015; Tiwari and Debnath, 2017), it is important to understand the factors that affect forensic accounting education and profession in both positive and negative ways. Forensic accounting literature is increased in the last few years (Honigsberg, 2020; Huber and DiGabriele, 2015; Ozili, 2020; Ramos *et al.*, 2019). This increase has been driven by the important applications of forensic accounting for companies and their stakeholders (Sahdan *et al.*, 2020; Yang and Lee, 2020), as well as the heightened anxiety about fraud against companies and societies (Abdullahi and Mansor, 2018; Allan *et al.*, 2018; Association of Certified Fraud Examiners, 2016a, b, 2018; Blythe and Goodpasture, 2019; Dennis and Johnstone, 2018; Honigsberg, 2020; Öztürk and Usul, 2020; Ramos *et al.*, 2019; Sadaf *et al.*, 2018; Timofeyev and Jakovljevic, 2020).

Forensic accounting topics have been examined through a variety of methodologies. For example, archival data (Curtis, 2008b; Fleming *et al.*, 2008; Grubb, 2017; Kranacher *et al.*, 2008; Seda and Kramer, 2015), experiments (Carpenter *et al.*, 2011) and survey research methods (Davis *et al.*, 2010; DiGabriele, 2008; Domino *et al.*, 2017; Hegazy *et al.*, 2017; Smith and Crumbley, 2009). The forensic accounting literature not only represents a great variety of perspectives but also covers a wide range of research questions and issues. Despite the importance and breadth of forensic accounting literature, a comprehensive review of the literature on the strengths and weaknesses of forensic accounting is needed. The objective of this paper is to synthesize the substantial volume of empirical work in forensic accounting education and profession literature in the accounting context. This paper also aims to identify key gaps in the forensic accounting area and to propose potentially fruitful areas for future research.

More specifically, the contributions of this paper to forensic accounting literature include the following. First, reviewing the status of the forensic accounting profession in regards to accreditation of professional certifications, regulatory bodies and public recognition. Second, highlighting the incremental benefits that forensic accounting adds to accounting and auditing professions. Third, highlighting the factors that hinder the progression of forensic accounting education and profession. Fourth, highlighting the benefits of forensic accounting education to the students, the universities and prospective forensic accounting practitioners. Fifth, this review helps to provide foundational knowledge about what forensic accountants might do and what forensic accounting may provide to the clients, practitioners and society. Sixth, this paper contributes to the forensic accounting profession by providing guidelines, which may help in the process of developing forensic accounting accreditation and certifications. Finally, the aggregate contributions of this paper lead to enhance the understanding of an important part of knowledge that is directly connected to the business and socio-economic development through different tools including, fraud investigation, cybercrimes investigation, litigation support and business valuation.

This paper is organized into five main sections. The next section presents a background forensic accounting. The third section illustrates the research design. The fourth section presents the findings of this research. The final section discusses the findings and concludes this paper by emphasizing the implication of this research.

Background of forensic accounting

The inherent aim of the forensic accounting profession is to support people, organizations and governments throughout one of the most challenging times, by providing a wide range of services that may maintain their ongoing (Howieson, 2018). Forensic accounting services are broad; thus, forensic accounting is a multidisciplinary specialization (Hegazy *et al.*, 2017). Forensic accountants practitioners can work in different types of organizations including, insurance companies, public institutes, police forces, banks and government agencies (Tiwari and Debnath, 2017; Yogi Prabowo, 2013). Although there is an overlap between some services that forensic accounting provides (e.g. fraud detection and cybercrimes detection; litigation services and business valuation), the vast majority of research in the forensic accounting area have classified the services offered by forensic accountants into four main categories, which are litigation services (Heitger and Heitger, 2008), fraud investigation (Louwers, 2015; Van Akkeren and Buckby, 2015), computer forensic analysis (Pearson and Singleton, 2008) and business valuation (DiGabriele and Lohrey, 2016).

According to Hegazy *et al.* (2017), forensic accountants may act as an advisor providing professional assistance to lawyers in the litigation process or present evidence in a financial lawsuit. Litigation support services may include; dispute resolution, dispute advisory, expert witness engagements and consulting services (Curtis, 2008a; Tiwari and Debnath, 2017). Forensic accountants could provide business valuations services in some circumstances, including cases such as personal injury, risk analysis advice bankruptcy, family law, matrimonial issue, stock-based compensation and the fair value of financial reporting (DiGabriele and Lohrey, 2016; Kohn, 2014). Another area of specialty is dispute resolution, where forensic accountants are engaged with court-related and financial adversarial services (Brennan, 2005).

Forensic Accounting is a comprehensive field of professional practice for fraud investigation services. In fact, a forensic accountant plays a significant role in the process of detecting, preventing and prosecuting those individuals who are involved in criminal activity such as financial misstatement, money laundering, and identity theft (Honigsberg, 2020; Sanchez, 2012). Besides, forensic accountants are expected to deal with computerized environments and engage with a variety of work such as information technology, data mining, and computer forensics (Pearson and Singleton, 2008; Rezaee and Wang, 2019; Van Akkeren *et al.*, 2013). Pearson and Singleton (2008) named various cybercrimes where forensic accountants can take a significant role, such as credit card fraud, online narcotic sales, telecommunications fraud, online/email extortion, online gambling, theft of computer privacy and intellectual property rights.

Research design

The conceptualization of this research design can best be described as a review paper (Petticrew and Roberts, 2008). The main objective of this paper is to provide an understanding of the strengths and weaknesses of forensic accounting education and profession based on the literature in this area. In line with the research objective, this study has taken two steps in the search for forensic accounting articles. The first step encompasses a search for keywords and keywords strings that were encompassed [forensic] and [accounting]; [forensic accounting]; [forensic accounting and expert witness]; [forensic accounting and business valuation]; [forensic accounting and fraud] and [forensic accounting and IT forensics]. The following databases were reviewed to retrieve relevant studies: ISI Web of Science; Taylor and Francis online; Elsevier; EBSCOhost; Education Resources Information Center (Eric); Emerald; J-STOR; Scopus; SSRN; Springer Link; SAGE Journals Online and Wiley Online Library.

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JBSED	In addition, this first step includes a review of forensic accounting journals [1], forensic
1,2	accounting special issues [2] and the journals that occasionally publish research in forensic
1,2	accounting [3]. The second step encompasses snowballing search for the reference list of all
	identified articles in the first step. The search was limited to articles published in English. The
	selected articles were scattered over 16 years (2004-2020), most of the articles were published
	in the last decades. From the search, the relevant studies were identified and critically
138	analyzed. The selected studies for the review were those that discussed forensic accounting
100	education and profession.

Findings

Strengths of forensic accounting

The benefit of forensic accounting education to the students. A forensic accounting program of study may comprise a combination of various knowledge including, auditing, accounting, statistics, information technology (IT), law sociology and psychology (Kresse, 2008). Moreover, forensic accounting students would be exposed to a variety of useful knowledge, abilities, and skills during their period of study. Besides, a successful forensic accountant has to possess a set of skills, including analytical, communication and investigative skills (DiGabriele, 2008; LaSalle, 2007; McMullen and Sanchez, 2010; Tiwari and Debnath, 2017). Brickner *et al.* (2010, p. 696) listed that after passing a forensic accounting course, students indicate significant improvement in their acquisition of fraud detection skills and abilities related to "(1) gathering, organizing, and evaluating evidence; (2) employing various investigative tools to identify evidence of fraud (i.e. tax evasion); (3) conducting interviews for evidence-gathering purposes and (4) communication."

Experimental studies on the benefits of forensic accounting education to the students have revealed that students with anti-fraud knowledge and skills rise their employment opportunities after graduation (Carpenter *et al.*, 2011). Students with forensic accounting education are deemed more beneficial to their institutions. LaSalle (2007) stated that the students who were taught the fraud triangle theory in a forensic accounting course performed fewer fraud discovery errors than other students. This opinion has been reinforced by Lehmann (2015), who indicated that graduates with forensic accounting courses promoted them to be more proficient in their work through gaining the knowledge of a fraud risk assessment and fraud detection.

The benefit of forensic accounting to students is multiple. For example, Carpenter *et al.* (2011) conclude that the forensic accounting course enhances the students' level of skepticism. Their longitudinal experiment submits that forensic accounting education equips students with higher performance of fraud-risk assessment. In another example, Lee *et al.* (2015) reveal that students with forensic accounting education show higher levels of creativity than other students. Heitger and Heitger (2008) assert that the broad spectrum of forensic accounting services may attract students to engage in forensic accounting education and consequently may enhance their understanding of the new opportunities that they may encounter. Again, forensic accounting competencies are not only helpful for prospective forensic accountants but are also helpful to all accounting students regardless of their selected career path.

The value of the profession. Forensic accounting renders value to accountants and auditors when they add some of the forensic accounting competencies to their competencies set. Crumbley *et al.* (2004) claimed that the significance of the forensic accounting profession is derived from the adjudicative and investigative roles of the forensic accountants, particularly in today's litigious business environment and the growing occurrence of fraud and financial dishonesty. Forensic accounting is deemed a vital profession as it incorporates a blend of

knowledge including, accounting, auditing, law, finance, information technology and criminology. Prior researchers have affirmed that the benefits of forensic accounting originated from the broad spectrum of duties that are encapsulated under the forensic accounting umbrella (Alshurafat *et al.*, 2020; Botes and Saadeh, 2018; Hegazy *et al.*, 2017; Honigsberg, 2020; Kresse, 2008; Tiwari and Debnath, 2017).

Significant need and increasing demand. The studies on the availability of forensic accounting education are multiple (Alshurafat *et al.*, 2020; Kramer *et al.*, 2017; Rezaee *et al.*, 2016; Seda and Kramer, 2014, 2015; Wang *et al.*, 2016). Recently, the need for forensic accountants, forensic accounting services and forensic accounting education has been increased (Tiwari and Debnath, 2017). Consequently, the number of forensic accounting education programs has also been increased (Alshurafat *et al.*, 2019; Seda and Kramer, 2008). This increase is seen in specific contexts around the world. For example, Alshurafat *et al.* (2019) reported an increasing number of universities teaching forensic accounting in the Australian context. Similarly, Seda and Kramer (2014) find that universities in the USA and international accounting have greatly increased the availability of forensic accounting education.

In addition, the number of forensic accounting firms has been increased (Hegazy *et al.*, 2017; Van Akkeren *et al.*, 2013; Van Akkeren and Tarr, 2014). The increase in forensic accounting profit in the USA is greater than the overall national GDP increase (Huber, 2014). Huber (2012) argued that forensic accounting in the USA is receiving growing interest from different stakeholders such as academics and practitioners. This increase in forensic accounting firms has been noticed in different context worldwide such as Australia (Tarr *et al.*, 2016; Van Akkeren and Tarr, 2014), China (Rezaee *et al.*, 2016; Wang *et al.*, 2016), United Kingdom (Hegazy *et al.*, 2017), New Zealand (Botes and Saadeh, 2018), Canada (Gosselin, 2014) and Ireland (Brennan, 2014).

New career channels. Current studies have reported notable barriers within the forensic accounting profession and forensic accounting certifications (Huber, 2014). Though there are some obstacles associated with the regulation of forensic accounting accreditations, there are many organizations that offer several professional certifications. Domino *et al.* (2017) stated that any forensic accountant who wants to be accredited could hold one of 16 certifications available for forensic accountants. Furthermore, there are growing numbers of organizations that issue certifications in forensic accounting (Huber, 2014).

Boyd *et al.* (2009) criticize the requirements for the Certified Fraud Examiner (CFE) as a major certification in the area of forensic accounting. According to Boyd *et al.* (2009, p. 87), CFE practitioners cover duties such as "resolving cases involving fraud, gathering evidence, obtaining statements and filling out reports, giving court testimony to findings, and aiding authorities in the detection and prevention of fraud." Forensic accounting practitioners can work in government agencies, auditing firms, banks, and financial companies, non-profit organizations, small and medium entities or specialized firms to provide forensic accounting services.

Fraud reduction. As fraud increases and auditors fail to detect the fraud perpetrators, forensic accounting gains legitimacy as a profession that proposes a set of tools to detect fraud and fraud perpetrators (Honigsberg, 2020; Nawawi and Salin, 2018; Yeoh, 2014). Fraud is a threat to organizations of all types and sizes in all parts of the world. The 2018 Report to the Nations, which is conducted by the Association of Certified Fraud Examiners, revealed 2,690 occupational fraud cases from 125 countries in a total of more than 7 billion dollars for all cases and 130,000 dollars per case on average. Van Akkeren and Buckby (2015) attribute the collapse of Enron, Tyco, WorldCom, Adelphia, to corporate fraud. Tiwari and Debnath (2017) revealed that there is an increase in the number of fraud and fraudulent activities worldwide, emphasizing the visibility of forensic accounting services.

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Proper forensic accounting education can ensure that employees and customers are aware of the consequences of fraud and financial misconduct on the companies (Honigsberg, 2020). Also, forensic accounting education can inform the employees about the steps needed to protect information that can lead to financial crime. Forensic accountants are equipped with knowledge and skills to detect fraudulent from committing their fraud incidents. Mehta and Bhavani (2017) demonstrated how forensic accounting practitioners utilize different forensic tools to detect fraud. These tools include statistical abnormalities measurements such as the Altman *Z*-Score, Benford's Law Model, Beneish eight-factored and five-factored variables. Furthermore, these tools may also include an accounting-focused approach that focuses on financial statement analysis. Consequently, the incorporation of modern forensic accounting techniques in accounting and auditing is perceived as essential to deal effectively with the problem of discovering ingenious fraud schemes arising from audit failure to detect frauds (Honigsberg, 2020).

Weaknesses of forensic accounting

Lack of professional regulations (standards and standard setters). In forensic accounting literature, there are variations in the profession regulations across countries (Hegazy *et al.*, 2017; Louwers, 2015; Tarr *et al.*, 2016). Also, there is a lack of empirical evidence in the literature that identifies the regulations for forensic accounting firms (Huber, 2012). Hegazy *et al.* (2017) found noticeable differences between forensic accounting regulations in the UK and the US According to Brennan (2014), forensic accounting in Ireland is considerably less regulated than in the US and probably comparable to countries such as Canada, UK and Australia. In comparison, the forensic accounting profession is well established in the US and Canada (Gosselin, 2014).

The first organized, professional forensic accounting body was founded in the US in 1989 – the Association of Certified Fraud Examiners (ACFE), which issued its first standards in 1991, aimed at facilitating certified fraud examiners in their engagements, and related to independence and objectivity, qualifications, due professional care in fraud examination, and confidentiality. The ACFE was followed by the emergence of several other forensic accounting bodies in the US (Huber, 2014). However, no one organization is regulated under either federal or state law. They are free to issue certification and to establish their membership criteria (Huber, 2014).

No control over the profession entry. There is a difference regarding the required qualifications of forensic accountants within countries (Howieson, 2018). Hegazy *et al.* (2017) show that there is no particular law controls the qualifications and requirements of entry into the forensic accounting profession in the United Kingdom, not even a license that demands an examination. Besides, the same problem remains within Ireland and Australia contexts (Brennan, 2005, 2014; Van Akkeren and Tarr, 2014). Many practitioners claim that they are forensic accounting practitioners without any formal qualifications. Therefore, anyone can claim the title of a forensic accountant. Thus, the forensic accounting profession is left open to non-accounting-based experts (Van Akkeren *et al.*, 2013). The absence of control over profession entry has been mentioned by Crumbley *et al.* (2004), who claimed that there are no comprehensive standards or generally accepted rules that govern the forensic accounting profession in the staken more than 25 years to understand this problem, it has not been solved yet.

Inconsistency in forensic accounting education contents. Auditing and accounting courses are unable to offer appropriate knowledge to students in terms of integrating accounting knowledge with other interdisciplinary filed (e.g. fraud investigation and litigation support) (Kresse, 2008). There are contradictory views amongst stakeholders groups (academics, practitioners, and service users) toward several issues related to the education of forensic

accounting, including offering mode, knowledge contents and teaching pedagogies (Wang *et al.*, 2016). This argument has been supported by Kramer *et al.* (2017), who find significant differences between the educators' and practitioners' perceptions of forensic accounting content and preferred teaching methods. In addition, Seda and Kramer (2014) report that there is no consistency in the delivery modes of forensic accounting education and how to integrate forensic accounting into the accounting curriculum.

Rezaee *et al.* (2004) stated that educators gave more interest than practitioners did in the inclusion of fraud examination, including topics such as fraud types, fraud elements, business red flags, and anti-fraud measures. While practitioners recognized the importance of integration of fraud education, they gave more emphasis on topics related to finding hidden assets, conflicts of interest, effective report writing, expert testimony, expert witness techniques, compliance with legislation and regulations and litigation consulting techniques.

Lack of research and research journals. Most forensic accounting researchers focus on the narrow approach of forensic accounting (Howieson, 2018), which mainly considers fraud investigation topics. Thus, forensic accounting faces a real problem to evolve as a discipline and profession (Huber and DiGabriele, 2015). In the theoretical contribution to forensic accounting research, the notable theoretical contributions and theoretical applications in forensic accounting research are the fraud triangle theory that has been subsequently developed by adding the fourth element to be fraud diamond theory (Free, 2015). However, there is a need to expand the use of various theories in forensic accounting research (Huber and DiGabriele, 2015). In the methodological contribution to forensic accounting research, Huber and DiGabriele (2015) indicate that quantitative methods make up the largest percentage of research methods published in forensic accounting research is referred to as the lack of specialized forensic accounting journals.

Botes and Saadeh (2018) demonstrate that the prevalence of the term forensic accounting in publications is limited. Thus there are opportunities for academics to publish in the forensic accounting area. Currently, there are very limited forensic accounting research journals or research journals that might be interested in publishing forensic accounting studies. The lack of research journals affects the evolving process of forensic accounting because research is the main way to provide both theoretical and practical contributions. Lacking the proper number of forensic accounting journals limits the ranking for the forensic accounting journal as they may not receive a high citation on what they publish. Therefore, forensic accounting topics will not be attractive to the researchers and ditto to the practitioners.

The misconception of the intrinsic aim of forensic accounting. In essence, there are major differences between traditional accounting, auditing and forensic accounting. Traditional accounting encompasses three main activities, namely, identification and recognition, measurement and recording, disclosure and communication of financial data and information to its users (Weygandt *et al.*, 2019). The nature of auditors' engagements is to offer an independent opinion on whether financial statements are fairly presented (Crain *et al.*, 2019). On contrary, the intrinsic aim of forensic accounting is to provide adjudicative, evaluation and investigative services, which most likely end as a testimony in the court regarding the financial misconduct matters (Muehlmann et al., 2012). In the literature, forensic accounting is defined in two different approaches. The first approach has provided a narrowed definition, which covers the in-courtroom role of forensic accountants (Botes and Saadeh, 2018). The second approach has provided a broad definition, including the adversarial, evaluation and investigative roles of forensic accountants (Rezaee et al., 2004). Botes and Saadeh (2018) identify changes in using forensic accounting terms and conclude that the narrowed approach prevails. Huber (2013) stated that there is a variation in the forensic accounting definitions, and in some cases, the definitions are contradictory, especially as it pertains to the inclusion of fraud. Smith and Crumbley (2009) highlight some conceptual differences between Forensic accounting

fraud examination and forensic accounting. Forensic accounting is broad and far-ranging. Accounting curriculum instructors must decide whether they should build their degrees on a fraud model, a more broad-ranging forensics model or an aggregation of the two approaches.

Forensic accounting has undergone several significant transformations over the past 40 years (Williams, 2006). The narrow view of forensic accounting dominated the literature until the beginning of the 1990s. Over the last three decades, the usage of the term seems to have changed in response to large-scale corporate scandals and the growing application of forensic accounting services (Botes and Saadeh, 2018; Tarr *et al.*, 2016; Van Akkeren and Buckby, 2015). Over the last decade, the definitions of forensic accounting seem to embrace a more comprehensive approach to defining forensic accounting based on its results (Botes and Saadeh, 2018). Both the narrowed and broad approaches present shortcomings and fail to provide a comprehensive definition of forensic accounting. Therefore, the shortcomings to provide an accurate definition of the forensic accounting profession led to the threat of misconception of the intrinsic aim of forensic accounting.

Need high qualified practitioners and educators. Many researchers have examined the required skills of forensic accountants (Davis *et al.*, 2010; DiGabriele, 2008; Howieson, 2018; McMullen and Sanchez, 2010). McMullen and Sanchez (2010) investigate the preliminary skills, education requirements and training requirements for forensic accountants. They found that analytical skills, computer skills, investigative skills and legal roles are important for forensic accountants. Instructors should consider these skills when designing forensic accounting curricula. Thus, students can find forensic accounting curricula valuable.

Finding qualified instructors to teach forensic accounting is not that easy task for university administrators. Several reasons have led to the complexity of finding qualified instructors to teach forensic accounting. The first reason is that forensic accounting contains a broad range of services that need a specialized instructor (Souza, 2017), in some cases, a team of specialized instructors. Both work-based and individual attributes are required by the forensic accounting practitioner, mutually with a broad range of sophisticated competencies. Forensic services expect useful work-based competencies such as oral and written communication skills, technological and analytical skills (Van Akkeren *et al.*, 2013). A second reason is that the need for highly qualified practitioners could cost too much for many entities.

Lack of public recognition and occupation reputation. One of the weaknesses that are facing forensic accounting is the lack of public recognition (Williams, 2006). Forensic accountants should seek to heighten their occupation reputation as it determines their carrier success. Forensic accounting service is still new to most businesses and even to the public. The lack of public recognition leads to confusion among the public about the nature of the services that forensic accountants perform. Therefore, the importance of the service is ignored. In pursuit of the new market of forensic accounting, professional accountants have capitalized upon their public image, promoting forensic accounting services. To gain the public confidence and recognition of forensic accounting, educators need to make dramatic changes given the current state of the profession,

Conclusion and discussion: avenues for improvement

As shown in Table 1, a qualitative review of the literature yielded 12 themes distributed between the strengths and weaknesses points.

Based on the previous literature review and this paper's analysis, forensic accounting is a field with many applications. From its roots in the fields of accounting and auditing and its multidisciplinary nature, forensic accounting combines financial, technological, adjudicative and investigative knowledge (Hegazy *et al.*, 2017; Howieson, 2018). The broad knowledge and competencies that the students learn in forensic accounting courses empower them to be more informative in areas that a traditional accounting course would not cover. Articulating

JBSED 1.2 forensic accounting knowledge with accounting and auditing enhances the value of service that might be provided to clients. Therefore, the increasing need and demand for forensic accounting services and education are justified by the incremental benefit that forensic accounting adds to the accounting profession and accounting students.

Based on the above-mentioned strength points, many opportunities are available to the forensic accounting stakeholders such as students, educators, practitioners, and clients. Regarding the students, they would be able to enhance their knowledge in accounting by mixing their accounting knowledge with the holistic knowledge of forensic accounting or at least with one part of forensic accounting knowledge. For example, a student who engages in forensic accounting education might be able to use accounting for fraud detection purposes, expert witness in lawsuits. IT fraud detection or business valuation purposes. In the same way, educators might add competitive value to their accounting curriculum by integrating forensic accounting knowledge with their students (LaSalle, 2007; Pearson and Singleton, 2008).

In regards to the practitioners and clients, forensic accounting equips its practitioners with many tools to provide specific services that would not be provided by accountants and auditors. The broad set of forensic accounting services is beneficial to the clients, particularly in terms of fraud reduction. Another reason that made forensic accounting valuable to the stakeholders is that forensic accounting helps in reducing the fraud risk. The fraud surveys during recent years indicate that companies and individuals worldwide suffer a lot from fraud (Van Akkeren and Buckby, 2015). Therefore, forensic accounting has been recognized as a useful profession to deter fraud and reduce the risk of being a fraud victim.

The review of the weaknesses of forensic accounting shows that the profession and education of forensic accounting are facing various impediments. The lack of regulators and standards gave those who are not qualified to practice forensic accounting services the opportunity to do so. That is because of the absence of forensic accounting bodies with strict rules to govern the entry to the forensic accounting profession. As forensic accounting, a profession with high intellectual techniques (Huber, 2013), the practitioners of the profession should be highly qualified and equipped with a set of important competencies. Thus, the lack of strict rules to refine the new entrants to the profession results in accepting unqualified individuals in the profession of forensic accounting (Van Akkeren *et al.*, 2013). Consequently, the overall reputation of the forensic accounting profession and public recognition for it are threatened.

The trends toward using the narrowed definition and broad definition approach heighten the misconception of what forensic accounting is and what forensic accountants do. Therefore, forensic accounting has been seen from different angles (Botes and Saadeh, 2018). Consequently, forensic accounting educational content is significantly varied. Some universities have adopted the narrowed definition of forensic accounting. Also, they have exclusively exposed their student to the fraud investigation part of forensic accounting.

Str	Strength		akness	
 (1) (2) (3) (4) 	education to the students(2) The value of the profession(3) Significant need and increasing demand		Lack of professional regulations (standards and standard setters) No control on the profession entry Inconsistency in forensic accounting education contents Lack of research and research journals The misconception of the intrinsic aim of forensic	
(4) (5)	New career channels Fraud reduction	(5) (6) (7)	Need high qualified practitioners and educators Lack of public recognition and occupation reputation	Table 1. summary of the findings

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Where other universities have a broad definition of forensic accounting and have exposed their student to all part of forensic accounting (Botes and Saadeh, 2018; Curtis, 2008a, b; Fleming *et al.*, 2008; Heitger and Heitger, 2008; Kranacher *et al.*, 2008; Pearson and Singleton, 2008). Also, there is a lack of forensic accounting research and research journal. These factors together are facing the improvement of forensic accounting education and profession.

There are several avenues for the improvement of forensic accounting education and profession. First, enhance the professionalism level of forensic accounting by establishing ad hoc forensic accounting associations. Second, maintain a high quality of forensic accounting services by controlling the entry to the profession. Third, enhance the quality of forensic accounting education through developing consistent education, which is corresponded to the real work of forensic accounting. Fifth, elevate the research outputs that are relevant to forensic accounting research journals. Finally, enhancing the reputation of forensic accounting as a profession by increasing the public recognition for it through offering workshops that enhance the public awareness of fraud and its consequences on the society and how forensic accountants could help to deter the fraud risk.

Forensic accounting is emerging as a field of knowledge, where many aspects still need more exploration. Hence, this paper adopted a literature review method to understand the discourse encompassing the forensic accounting profession and education. This paper sets a stage for further studies into this important topic. The paper can be enhanced by conducting an empirical study to better understand the professional and education of forensic accounting. Furthermore, future researchers can contribute to the understanding of forensic accounting as it is directly connected to business and socio-economic development through different forensic accounting tools.

Notes

- 1. Forensic accounting research journals the Journal of Forensic and Investigative Accounting; the Journal of Forensic Studies in Accounting and Business and the Journal of Forensic Accounting Research.
- The Pacific Accounting Review, Volume 30, issue 2; the Accounting Research Journal Volume 28, Issue 1. Issues in Accounting Education Volume 23, Issue 4.
- 3. The Accounting Review; Contemporary Accounting Research; Accounting, Organizations and Society; Journal of Accounting Research; Journal of Accounting and Economics; Journal of Accounting Literature; Review of Accounting Studies; the British Accounting Review; Journal of Accounting and Public Policy; Journal of Accounting, Ethics and Public Policy; Research in Accounting Regulation; International Journal of Accounting, Auditing and Performance Evaluation; and the Journal of Business Ethics.

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