

# Speaking truth to power: The use of economic arguments in the political debate about RMB undervaluation

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December 20, 2012

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# 1 Introduction

In the presidential election of 2012 the Republican candidate Mitt Romney made a tough stance against the currency policy of the People's Bank of China: "Unless China changes its ways" he stated, "on day one of my presidency I will designate it a currency manipulator and take appropriate counteraction"<sup>1</sup>.

The consequences of globalization in terms of off-shoring and loss of manufacturing jobs has been a recurrent issue in American politics over the last many decades. Still, from an outside perspective it is a curious fact that a seemingly technocratic and complicated issue like China's currency policy is given such an important role in US politics.

In this paper we try to answer the question if the Chinese currency policy deserves such a central position in the United States' foreign policy debate given its actual economic importance and the United States' possibilities to influence it.

In the chapter "??", we will try to explore the underlying economic theory, focusing on standard textbook economic models. What is the importance of the exchange rate? What does it mean for a currency to be undervalued? And how do economists know if and by how much a currency is undervalued? We will then portray the academic debate among economists about China's currency policy.

In the following chapter "The political debate", we will look at the political debate: How has it developed in the US over the last ten years? What are the arguments brought forward and who are the main participants? On the Chinese side, what are the political arguments for (and against) current Chinese monetary policy?

In the third chapter "Diplomatic options" we will discuss the issue from a diplomatic point of view: What are the diplomatic options that the USA have to put pressure on China to change its foreign exchange policy?

In the final chapter "Discussion" we will bring together the economic, political and diplomatic threads to answer the question how economics inform the diplomatic and political debate about China's foreign exchange policy.

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<sup>1</sup><http://www.guardian.co.uk/world/video/2012/oct/23/debate-obama-romney-china-video>

## 2 Economics

The exchange rate between two currencies is based on how much it costs to buy a fixed amount of one currency with the other. This price depends on the demand and the supply of each currency on the money market.

Macroeconomic theory postulates, that for every two currencies at every moment, there exists a balanced exchange rate, called the *equilibrium exchange rate*.<sup>2</sup> There is a number of different theoretical methods for defining the equilibrium exchange rate. We can broadly group them in two approaches:

- Estimates based on purchasing power parity (PPP)
- Estimates based on macroeconomic balance ideals

The basic idea of PPP is to declare the exchange rate as ideal, at which with a given amount of money you could buy exactly the same goods in two countries. A famous example of such an approach is The Economist's Big Mac Index.<sup>3</sup> If a Big mac costs 1 USD in the US and 5 RMB in China, the ideal exchange rate would be 1 to 5. You can then calculate the deviation of the actual exchange rate to the ideal equilibrium exchange rate. Of course this is also done with a more diverse basket of goods than a Big Mac.

The second group takes a macroeconomic indicator as a basis, and measures how much a country diverges from a level that is considered normal. The most prominent of such features is current account. The current account is the difference between a country's total exports and its total imports. If a country exports more than it imports it has a current account *surplus* - China, Germany, Japan and Switzerland are all current account surplus countries. If a country imports more goods and services than it exports, it has a current account *deficit* - the USA are currently the most prominent and by far the biggest deficit country. To define a normal level some economists pick an absolute balance, e.g. zero. Others, based on the difference between emerging and advanced economies allows for a fluctuation of around 3% as to lie within normalcy. The equilibrium exchange rate is now defined as the exchange rate, at which the current account would move down (or up) to the previously-defined normal level. This idea of an ideal exchange rate becomes important when politicians talk about China as a "currency manipulator". If the market for currencies was working like a standard market of goods, with firms and private persons being able to buy and produce money, all

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<sup>2</sup>[Krugman and Wells, 2008, pp. 505].

<sup>3</sup><http://www.economist.com/markets/Bigmac/Index.cfm>

exchange rates would always be at their equilibrium rate. However, money is not a normal tradable good, and the production of money for every country is controlled by their national bank. A national bank can print a discretionary amount of money in their own currency.<sup>4</sup> But how much money should a national bank print? This decision is a matter of *monetary policy*.

## 2.1 Monetary policy

The standard monetary policy of western countries is to define a target for inflation, normally around 2%. The national banks are mandated to control the supply of money such that this target is met. Currencies of these countries are then freely traded and their exchange rate fluctuates with varying demand.

Nations can also chose to exercise a tighter control of the value of their exchange rate. This is very common: Some national banks even use their money supply to ‘peg’ their currency to another, so that exchange rates are fixed. For example, the Swiss National Bank (SNB) offers every vendor of an euro CHF 1.20 in exchange. Since the SNB controls the money supply of Switzerland, it will never run out of CHF. As a consequence the euro will never be lower than 1.20 until the SNB changes its exchange rate policy. In this case monetary policy becomes an *exchange rate policy*: Instead of focusing on inflation, the goal of the policy is to control the exchange rate. A strong incentive for a national bank to maintain a *low* exchange rate is to boost exports. Take a typical tradable good as an example: A watch produced in Switzerland sells at a fixed price in Swiss Francs (CHF). If for one euro you get 1.50 CHF exchanges for 0.7 Euro, a watch worth 1000 CHF costs 666 Euro in Germany. If the value of the Swiss Franc rises, so that one CHF, the price of the same watch is now 1000 euro in Germany — this watch is now a much less competitive good on the world market.

With the notions of the equilibrium exchange rate and monetary policy in mind we can now restate what it means for a currency to be undervalued: A currency is undervalued when its exchange rate is held below the equilibrium exchange rate by a national bank by means of monetary policy.

## 2.2 Is China manipulating the RMB exchange rate?

Chinese goods have been very competitive on the world market during the last ten years and Chinese exports have more than quadrupled since China

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<sup>4</sup>The process is somewhat more complicated than printing bank notes, but the effect is the same for the purposes of this section.

joined the WTO in 2001.<sup>5</sup> It is this stunning growth that has prompted accusations against China: The People's Bank of China have followed a policy that helped keeping the Chinese currency, the renminbi (RMB) undervalued.<sup>6</sup>

### 2.2.1 Yes

Some critics of China's monetary policy make argument that the RMB is undervalued by pointing out that the Chinese national bank did everything a bank would do were it manipulating the exchange rate.

So how would a National Bank keep a rate below its equilibrium rate? According to textbook economics this can be done in three ways:<sup>7</sup>

1. The government can shift supply and demand for its currency by intervening on the foreign exchange market. By buying foreign exchange and selling the local currency the government can drive the price of foreign exchange up and the price of the local currency down.
2. The government can shift supply and demand by means of monetary policy, namely by keeping interest rates low. Lower interest rates mean lower returns for foreign investors. If foreign investors refrain from investing locally, the demand for the local currency decrease. which drives the price of the local currency down.
3. The government can impose foreign exchange controls, forbidding foreigners to buy the local currency. This reduces the practical demand by outlawing it, which makes the currency price go down.

According to Goldstein and Lardy this is exactly what the People's Bank of China has been doing for a decade:<sup>8</sup>

1. The Chinese government has intervened on the foreign currency market on a massive scale: It has been buying foreign currencies, mainly US Dollars (in the form of US government debt) in exchange for RMB to the amount of 10% of its GDP, i.e. 10% of the value of all goods and services produced in China.

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<sup>5</sup>of St. Louis Economic Research.

<sup>6</sup>The renminbi is also abbreviated to CNY, reflecting the name of the basic unit of the Renminbi, the Yuan.

<sup>7</sup>[Krugman and Wells, 2008, pp. 514]

<sup>8</sup>[?, pp. 40].

2. Interest rates in China are relatively low: When the interest rate is adjusted for inflation, the so called *real* interest rate has actually been negative for the most part since 2006.
3. China imposes foreign exchange controls that limits the amount of RMB that is sold to international investors or other governments.

As a result, critics of China's exchange rate regime say, China's export sector has become unfairly competitive.

Adding further to the pile of evidence, critics argue, is China's practice of *sterilization*.<sup>9</sup> If the Chinese government buys foreign currency paying with RMB, it is increasing the amount of RMB in circulation in the economy.<sup>10</sup> According to standard economic models an increase in the money supply means that the currency has less value and (all other things equal) prices go up, leading to inflation.<sup>11</sup> As a result, goods produced in China would become more expensive on the world market not due to currency appreciation, but because production costs (e.g. wages of Chinese workers) rise with inflation. According to this model, even though the People's Bank of China (PBC) keeps the *nominal* exchange rate fixed, the *real* exchange rate would increase.<sup>12</sup> Inflation would offset the competitive advantage of Chinese goods in the long run and cancel out the effects of the lower exchange rate for the RMB.

The People's Bank of China is taking measures that are suited to prevent a appreciation in real terms: It is *sterilizing* the money inflow, mainly by raising reserve requirements for Chinese commercial banks. Raising reserve requirements limits the amount of money the commercial banks can issue as loans, therefore 'extracting' money out of the economy. This in turn limits inflation and prevents the *real* value of the RMB to rise.

By raising reserve requirements, China has prevented about 40% of the money inflows of entering the monetary base since 2003.<sup>13</sup>

Despite these measures, China has seen some inflation during the last ten years.<sup>14</sup> Even so, China clearly has been taking measures to fight inflation and was thereby lowering its *real* exchange rate. Accordingly, while inflation should compensate an undervalued nominal exchange rate in the long run,

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<sup>9</sup>Humpage and Mowry and [Xiaoyi, 2011, p. ?]

<sup>10</sup>In economical jargon it is expanding the *monetary base*, what (other things equal) leads to an increase in money supply

<sup>11</sup>[Krugman and Wells, 2008, pp. 432].

<sup>12</sup>[Krugman and Wells, 2008, p. 509].

<sup>13</sup>Humpage and Mowry.

<sup>14</sup>Humpage and Mowry.

China is accused of procrastinating ‘the long run’ by preventing inflation to happen.

### 2.2.2 No

There are a variety of arguments supporting the legitimacy of Chinese monetary policy. One stance is to deny the importance of the exchange rate. A different approach is to deny that China is indeed manipulating the exchange rate in the first place.

The first mentioned argumentation points out that China’s export success can be explained with other factors than the exchange rate. Different authors point to different reasons:

One factor is *labor arbitrage*:<sup>15</sup> Chinese workers are willing to work at lower wages than workers in importing countries. Importantly, accepted wages are not only lower in absolute terms but also in terms of purchasing power: A typical wage in China allows for a lower standard of living than a typical wage in an industrial country, thereby allowing Chinese firms to produce with much lower labor costs, both absolute and relative.

Another explanation is that Chinese producers profit from very cheap energy and land rents.<sup>16</sup> These markets are not liberalized and prices can therefore be strongly influenced by government policy. For Chinese officials on the local as well as on the federal level GDP growth is a major ambition. This makes them maintain energy and land use prices that are cheaper on average than in industrial countries as well as other emerging economies.

Another factor explaining strong Chinese exports has been introduced in 2005 by Ben Bernanke, shortly before he was named chairman of the US Federal Reserve:<sup>17</sup> The *saving glut hypothesis*. According to Bernanke a special series of circumstances has lead to an exceptionally high saving rate, i.e. the percentage of income that is saved. Partly due to the lack of social security institutions and to the One-Child-Policy, the saving rate of Chinese households is among the highest in the world - in 2007 it was 53% as opposed to for example Switzerland’s 17,5%.<sup>18</sup> These savings drive down interest rates in China and allow the local producers to access very cheap loans, which in turn allows them to expand production.<sup>19</sup>

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<sup>15</sup>This factor was pointed at by Xu Mingqi of the Institute of World economy of the Shanghai Academy of Social Sciences in a talk to our class on September 4 2012.

<sup>16</sup>[?, pp. 25].

<sup>17</sup>?

<sup>18</sup>[Yang et al., 2011, pp. 20] and Office

<sup>19</sup>This explanation is also favoured by [Wyplosz, 2010, pp. 41] and ?Reisen2010.

A similar approach is to point out the symmetry of the world market. While China is running a current account surplus, the US in turn run a current account *deficit*, importing much more goods than exporting. According to Wyplosz, this deficit is caused by the low saving rate of US households and the budget deficit of the US government.<sup>20</sup> Instead of trying to explain China's export success with the alleged undervaluation of the RMB, one could with equal justification explain the US deficit with the *overvaluation* of the US Dollar.

What all approaches mentioned have in common is the insistence that there is no need to invoke the alleged RMB undervaluation to explain China's success on the export market. A different argument does not deny the importance of the exchange rate but states that each of the practices taken by the PBOC may also have legitimate purposes. China is not the only country that pegs its currency to another currency - we already mentioned that Switzerland is doing so. A fixed exchange rate has the advantage of giving firms and consumers certainty about the future value of a currency.<sup>21</sup> Lowering interest rates to spur growth is also a tool widely used by National Banks worldwide. On top of that, limiting inflation is considered to be one of the main goals of *any* national bank.<sup>22</sup> Finally, many other countries - among them Japan, Germany and Switzerland - run current account surpluses that are as big as China's, relative to their GDP.

### 2.2.3 Maybe, but how much?

Because many economists seem to agree that the RMB was undervalued during several years in the last decade, there is a substantive body of research trying to estimate *by how much* the RMB is undervalued.

The most prominent estimates are based on the macroeconomic balance approach described above. In particular a 2008 report by the International Monetary Fund outlines three macroeconomic balance indicators that can be used to estimate the disparity between the real and equilibrated exchange rate<sup>23</sup>:

- **The current account approach** looks at projections of a country's current account and tries to estimate how much the exchange rate would need to be adjusted for it to stabilize within a certain level.

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<sup>20</sup>[Wyplosz, 2010, pp. 39-40].

<sup>21</sup>[Krugman and Wells, 2008, p. 515]

<sup>22</sup>China's capital controls might be the only exception, but their importance pales against that of China's foreign exchange reserves.

<sup>23</sup>?Lee2008.



- **The reduced-form equilibrium real exchange rate approach** tries to estimate the equilibrium directly based on the annual change in the current account as well as a number of trade indicators.
- **The external sustainability approach** tries to find the exchange rate that would stabilize the change in the current account of a country to within a certain level.

These techniques have been used by Cline and Williamson in their yearly policy brief on equilibrium exchange rates of the Peterson Institute for International Economics, a private research institution whose researchers have taken a leading role in criticizing Chinese exchange rate policy during the last decade.<sup>24</sup> Their estimates are based largely on the first and third methods proposed by the IMF. They designate that debt and trade surplus above 3% of GDP is abnormal and try to calculate how much the exchange rate would have to change to bring the current account within a normal threshold. In 2009 their results showed that the Chinese RMB was undervalued by 21.4%. Additionally they found the US dollar to be 17.4% percent overvalued, further contrasting the value gap between the two currencies.

However, in a similar approach using international trade flows Cheung, Chinn and Fuji find diverging results for 2009.<sup>25</sup> According to their calculations the RMB might be undervalued by as much as 50%, but they do not find the deviation to be statistically significant and being highly volatile for small variations in the data. In a newer paper in 2010, reviewing several different estimates they stress the fact that large uncertainties surround all the estimates.<sup>26</sup>

Estimates based on the PPP approach again deliver varying results, from the RMB actually being *overvalued* by 5% to a 20% undervaluation for 2009, according to Cheung, Chinn and Fuji.<sup>27</sup> Other researchers also find huge swings in different estimates, with the RMB being undervalued by up to 47%.<sup>28</sup> One problem of PPP approaches is, that the price level in emerging economies is generally lower than in advanced economies. According to the so called Balassa-Samuelson effect, this is mainly because services and non-tradable goods (e.g. a haircut or a restaurant meal) are much cheaper in emerging economies.<sup>29</sup> There are attempts to take account of such effects

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<sup>24</sup>Cline and Williamson [2009] and Cline and Williamson [2012].

<sup>25</sup>Cheung et al. [2009].

<sup>26</sup>Cheung et al. [2010].

<sup>27</sup>[Cheung et al., 2010, pp. 82].

<sup>28</sup>[Subramanian, 2010, pp. 72].

<sup>29</sup>[Frankel, 2010, pp. 57].

and calculate a revised PPP equilibrium exchange rate, but the results are mixed: The above-mentioned variations depend largely on different assumptions in the calculating models.

The range of estimates — from 5% overvalued to 50% undervalued — clearly illustrates why estimating an equilibrium exchange rate is a difficult problem. How we pinpoint the equilibrium and according to what factors we measure the divergence is a question which is vague enough to accommodate whatever result that might be desired. With the right factors it is possible to argue either way, something which is practiced by economists on both sides of the debate.

### **3 The political debate**

The following graph depicts the movement of the RMB real exchange rate against the US Dollar:

The RMB was pegged to the Dollar from 1994 at a rate of 8.28 RMB per Dollar until 2005. Then it appreciated at about 6% per year, before the appreciation came to a halt in the aftermath of the financial crisis. The RMB appreciated again from mid 2010 up to now.

Following this movement of the RMB exchange rate, this chapter will depict the political debates about RMB appreciation in the USA and China.

#### **3.1 The political debate in the USA**

The history of the political debate in the USA about RMB undervaluation can roughly be seen in four phases:

It started shortly after China had joined the World Trade Organization WTO in 2001. As a member of the WTO, China gained access to Western markets (and vice versa) within an international regulatory structure ensuring free trade and banning protectionist measures. Critics in the USA argued that China was taking unfair advantage of these rules and bending them to China's own advantage. At the core of the critics of Chinese foreign exchange policy were the American labor unions.<sup>30</sup> Organized labor in the US has been critical of free trade in general, at least since the North American Free Trade Agreement (NAFTA) had been signed into law in 1993, and due to the ongoing decline of manufacturing in the US. In addition, the decline of products 'made in USA' was contrasted with ever more products labelled 'made in China', as a result of China's export surge.

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<sup>30</sup>[Levy, 2011a, pp. 14]

Labor unions held the position that this decline was at least partly due to employers shifting production from the US to China. In 2004, the Assistant Director for International Economics at AFL-CIO, the umbrella federation for US unions, stated before the US Congress:

[...]it is clear that the Chinese governments manipulation of its currency, violation of international trade rules, and egregious repression of its citizens fundamental democratic and human rights are key contributors to an unfair competitive advantage.<sup>31</sup>

Speaking of currency *manipulation* and an *unfair* competitive advantage, the AFL-CIO Director makes clear that she does not consider China's exchange rate policy as purely technical but as an issue where political action of the USA is needed to protect the interests of American manufacturing workers.

In the early 2000's, labor unions were largely alone in their call for action against China's currency policy. In a 2003 issue of *The international economy magazine* over thirty international analysts from business and academia shortly answered the question 'Is China's currency dangerously undervalued and a threat to the global economy?'.<sup>32</sup> Most US analysts held the view, that even if China's currency was undervalued, export surplus did not come at the cost of US manufacturing. In their view, manufacturing was inevitably moving from the US to emerging economies. If the RMB exchange rate had been manipulated, it had been so at the cost of other emerging economies like India or Vietnam. Correspondingly, experts representing other East Asian countries in the *International economy magazine* tended to a more harsh view of China's exchange rate policy. In addition, US experts pointed out the benefits of cheap Chinese exports for American consumers, who could choose from a growing variety of cheap consumer products like toys and electronics. Thus, cheap Chinese exports helped keeping US inflation low.

In 2005 the *saving glut hypothesis* brought forward by Ben Bernanke opened a new line of criticism on China's export surplus.<sup>33</sup> In this view, the Asian export surpluses posed a threat to global economic stability. However, since this critique came in a time of worldwide economic prosperity, and since the

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<sup>31</sup>AFL-CIO on U.S.-China Ties: Reassessing the Economic Relationship, <http://www.dossiertibet.it/news/afl-cio-us-china-ties-reassessing-economic-relationship>

<sup>32</sup>IEM [2003].

<sup>33</sup>as explained in section ...

RMB had started to appreciate against the US Dollar anyway, the critique was not initially drawn into the political spotlight.<sup>34</sup>

During the *Great Recession*, the financial and economic crisis that started with the burst of the US housing bubble in 2006, the critique of China intensified. As the view prevailed that the crisis was partly due to lack of demand and excess of savings worldwide, prominent economists like Paul Krugman - writing for the New York Times - joined the critics.<sup>35</sup> In addition, the continuous appreciation of the RMB had stopped in 2008. As a result, the critique became more heated on a political level. With each American election, a new batch of politicians paraded their toughness on China's economic policies promising tougher measures and severe consequences. The most prominently displayed examples are of course American presidential candidates during election years. Both Mitt Romney and Barack Obama made remarkably similar points during the elections of 2008 and 2012 respectively. At a speech in 2008 to the "Alliance of American Manufacturing" an interest organization representing a part of the US manufacturing industry, Obama stated (speaking about China):

Look, here's the bottom line. You guys keep on manipulating your currency and we are going start shutting off access to some of our markets

. Romney on the other hand stated several times during the 2012 election to label China as a currency manipulator from day one in office.<sup>36</sup> These points are both reiterating an argument based on the trade ramifications of a purportedly undervalued RMB.

The debate in the US reached a climax in the spring of 2010 when the Obama administration had been long overdue to release the biannual treasury report. The report is mandated to label China as a currency manipulator if there is sufficient reason to do so, and considerable pressure was mounting from both politicians and pundits to do just that. After delaying the report several months, China was finally not officially accused of manipulating their currency by the report, a move that only increased the heated debate on the subject and made many republicans accuse Barack Obama of being weak on China.

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<sup>34</sup>[?, p.16].

<sup>35</sup>Krugman.

<sup>36</sup>Obama [2008] and <sup>37</sup>

### 3.2 The political debate in China

Political discussions of the RMB issue in China are of course much less public and transparent than the debate in the USA. It is the State Council in Beijing, headed by the Premier Minister - until 2012 this was Wen Jiabao - that sets macroeconomic policy, including the exchange rate regime. This policy ultimately has to be approved by the Politburo Standing Committee, headed by Hu Jintao until 2012.<sup>38</sup> Instead of following the debate we will focus on different motivations and interest groups that might influence this political sphere.

The interest group most directly concerned by the exchange rate policy are Chinese exporting firms. Exporters generally have a strong interest in a weak RMB, since it makes their products cheaper and thus more competitive on the world market. The export industry is mainly located in eight provinces along the Chinese coast. Exporting firms make up only 5-6% of Chinese employment, but their influence is amplified by their enormous profits and their close relations to the government, especially through politicians of said provinces.<sup>39</sup>

Also in favor of expansive monetary policy are many representatives of local Chinese government. Their main legitimization — and sometimes their main source of income — is economic growth.<sup>40</sup> Growth is also the only legitimization of the central government in Beijing, giving a strong rationale for growth-spurring monetary policy, including a low RMB exchange rate. As mentioned in the section on economics, one problem in maintaining a low exchange rate is inflation. Inflation can be politically disruptive, spurring popular discontent. Accordingly, controlling inflation is one of the main macroeconomic goals of the central government.<sup>41</sup>

Officials concerned with inflation are joined by officials aiming at balancing the Chinese economy more towards domestic consumption, and away from the production surplus. Pushing for this are more traditional ‘communists’ who feel Chinese workers did not profit enough from the economic boom, but ‘balancing the economy’ has by now become an official part of economic policy.<sup>42</sup>

Chinese nationalism is a third factor that joins inflation control and growth as a motivation force. The perceived humiliations of the 19th century to-

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<sup>38</sup>Naughton [2008]

<sup>39</sup>[Breslin, 2010, p. 202].

<sup>40</sup>[Levy, 2011a, pp. 19].

<sup>41</sup>?

<sup>42</sup>Wang [2011].

gether with China's lackluster economic performance up until recent times has fueled a political will to reinstate China in its rightful place.<sup>43</sup> This has lead to a political atmosphere where much weight is put on not appearing weak in confrontations with western powers.

In terms of economic policy these factors are all in part making China less open to suggestions on economic policy from the US. The economic motivations lead China do disregard foreign concerns while the national pride makes it unlikely for a Chinese politician to appear as if he or she were taking orders from abroad.

With these motives in mind we can now identify the two turning points, in 2008 and in 2010, of the RMB exchange rate. Before the year 2008 China saw spectacular growth rates. The main concerns then were preventing inflation and balancing the economy - the concerns of exporters were marginal and China let the RMB slowly appreciate against the US Dollar. In spring 2008 the global economic crisis hit exporters hard and growth was coming to a halt. At the same time a new economic team at the State Council was enacted in which according to Barry Naughton Wang Qishan, a official friendly to exporting firms, was the new strong man.<sup>44</sup> This team decided a pause in RMB appreciation and pegged the RMB to the US Dollar at about 6.8 Yuan per Dollar. In addition, the new policies included tax reliefs and easier access to loans for exporting firms. With this stimulus, the exporting sector was soon thriving again and by 2010 inflation again became the major concern.<sup>45</sup> The peg was loosened and since 2010 the RMB is appreciating again. Although the appreciation is slower than between 2005 and 2008, the appreciation in real terms is even faster, due to Chinese inflation and deflation in most Western countries.

## 4 Diplomatic options

The diplomatic debate between the US and China takes many different shapes. While the dialogue is defined by continuous attempts from the US to convince China to appreciate the RMB, the methods span from passive domestic policy statements to efforts of using international bodies to persuade China to change their economic policies.

In this section we will explore the different means of diplomatic pressure that has been in use during the last decade. For each method we will look

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<sup>43</sup>Hughes [2006]

<sup>44</sup>?

<sup>45</sup>?

at the following characteristics:

1. The Argumentation: What is the specific reasoning brought forth in the economic debate?
2. The Channels of Communication: Where does the debate take place and with what authority?
3. The response: What is the reaction to the debate from China's side?
4. The Context: Under what political or economic circumstances is the debate brought forth?

#### 4.1 Unilateral action

The most discussed and most direct option for the US would be to label China a 'currency manipulator'. The US Treasury department is mandated in writing a biannual report on whether trading partners manipulate their currency.

Labeling China a 'currency manipulator' doesn't do anything in itself - it merely amounts to an international insult. But with labelling a country a currency manipulator the US Treasury Department has the mandate to

[...] take action to initiate negotiations with such foreign countries on an expedited basis, in the International Monetary Fund or bilaterally, for the purpose of ensuring that such countries regularly and promptly adjust the rate of exchange between their currencies and the United States dollar [...] to eliminate the unfair advantage.<sup>46</sup>

So far, the US Treasury Department refrained from labelling China a currency manipulator, much to the dismay of members of US congress, especially those representing states with strong manufacturing. In 2009 a bill was proposed by the republican senator Timothy Ryan of Ohio, aiming to introduce a tariff with the stated purpose "*To amend title VII of the Tariff Act of 1930 to clarify that countervailing duties may be imposed to address subsidies relating to a fundamentally undervalued currency of any foreign country*" Ryan [2009]. Because the low RMB has the same effect as a tariff

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<sup>46</sup>Omnibus Trade and Competitiveness Act of 1988 (H.R. 3) SEC. 3004. INTERNATIONAL NEGOTIATIONS ON EXCHANGE RATE AND ECONOMIC POLICIES., <http://www.treasury.gov/resource-center/international/exchange-rate-policies/Documents/authorizing-statute.pdf>

on US goods, the reasoning goes, the US should reply with the same means, imposing a tariff on Chinese goods. The bill passed the House but was not put to a vote in the Senate, sharing the fate with other similar bills proposed in Congress.

The USA have in fact tried the proposed method before: In 1971 Nixon decided to instate trade tariffs against goods imported from Japan and Germany after having pressured them into appreciating their currency in vain. The tariffs forced Japan to appreciate the Yen against the Dollar shortly after, but the overall economic gains for the US are debatable.<sup>47</sup>

In the actual case, China would very probably have reacted to US tariffs by implementing equal measures, leading to a trade war with negative economic consequences for both nations.<sup>48</sup>

Moreover, US tariffs would clearly be in violation of WTO regulations of free trade and the US would face threats of penalties.

## 4.2 Multilateral action

There are three international bodies that govern multilateral economic relations: The G20, the International Monetary Fund (IMF) and the World Trade Organization (WTO). Through all of them the USA could try to influence or condemn Chinese monetary policy.

The G20 is a group of 20 finance ministers and central bank governors from 20 major economies that try to promote economic cooperation and a venue for discussions on the international finance system. Pushed by the USA several attempts at making the participating leaders pledge their allegiance to economic policies that would prevent countries from manipulating their currencies. However the strongest statement so far was reached at the 2009 Summit in Pittsburgh where the leaders agreed ‘*to adopt the policies needed to lay the foundation for strong, sustained and balanced growth in the 21st century*’. Later attempts at further defining exactly what is covered by ‘balanced’ have failed.<sup>49</sup>

An alternative approach would be to address the IMF, whose stated goal it is to stabilize exchange rates. In fact Dominic Strauss Kahn, then head of the IMF, has publicly stated that the RMB is undervalued in 2009, and the IMF has repeated this sentiment with slight modifications since then.<sup>50</sup> Despite these statements no action has been taken by the IMF to regulate

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<sup>47</sup>Kuroda [2004].

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<sup>49</sup>An interesting account of this process can be found in Levy [2011b].

<sup>50</sup>Reuters [2009].



or penalize China. The IMF lacks the means to influence donor countries that aren't dependent on it for borrowing money.

In China the IMF labeling the RMB as undervalued elicited a strong response. After the label of the RMB as 'moderately undervalued' in 2011, the chief of the Institute of International Finance at the East China Normal University, Huang Zeming conceded that "*it is certain that the RMB exchange rate has been underrated, but there is no fixed standard that could be used to test whether the appraisal method is proper*"<sup>51</sup>, arguing that the conclusions made by the IMF are meaningless.

Lastly the US could address the World Trade Organization, an organization that is deliberately set up to supervise and liberalize international trade. Two WTO agreements possibly qualify to condemn the Chinese monetary policy: Article XV(4) of the General Agreement on Tariffs and Trade (GATT) and the Agreement on Subsidies and Countervailing Measures (ASCM).<sup>52</sup> Regarding the GATT the US could argue that Chinese monetary policy has the same effects as a tariff. Regarding the ASCM the US could argue that Chinese monetary policy amounts to a subsidy for exporting firms. But most scholars of trade law doubt such argumentation would be successful. Both the GATT and ASCM are very specifically on tariffs and subsidies - the ASCM even contains a closed list what counts as a subsidy. These agreements do not encompass other measures that simply have similar effects.<sup>53</sup>

The only possible option multilaterally for the US would be to introduce *new* multilateral agreements banning currency manipulation. In terms of international trade it could be argued that it is mutually beneficial for the world economy when the current account surplus or deficit of every nation is kept within a certain factor of their GDP<sup>54</sup>. While the US has tried to influence the G20 by having them include the word 'balanced' in a central statement about the global economy further efforts have not been fruitful. However had this been a high priority for the US, it seems likely that they could have exerted diplomatic pressure on other nations to commit to a clear defined policy by for example making it easier for foreign nationals to invest on the US market, or threatening to make it more difficult if other countries were unwilling to sign.

The consequence of such a treaty if it were strictly worded would be that participating countries could face penalties in case they were running a bud-

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<sup>51</sup>A more in depth response can be found in Daily [2011].

<sup>52</sup>[Waibel, 2010, pp. 135].

<sup>53</sup>Waibel [2010].

<sup>54</sup>This argument is put forward by for example ?

get deficit or trade balance surplus. This is a huge dent in the right of most countries to autonomously decide on their monetary policy. Surplus countries such as Japan and Germany would probably oppose. And given the reluctance of the USA to give up autonomy in favor of multilateral organizations it's not clear that such a treaty would even be in the interest of the US.

While these scenarios might not encompass all possible avenues US diplomacy, they do illustrate how the most obvious multilateral options probably are not beneficial for the USA.

### 4.3 Persuasion

There might still be an option for US officials to discuss Chinese monetary policy outside of formal diplomatic relations or international bodies. Critics of China sometimes supplement their case with the assertion, that a higher-valued RMB would actually be in the interest of the Chinese people, if not its export sector.

For an ordinary Chinese factory worker, the cheap RMB might on one hand mean that their factory is doing great on foreign markets, but at the same time buying foreign products like European cars or American gadgets becomes very expensive.

Additionally the artificially low interest rates, in combination with inflation, deprive Chinese citizens of attractive saving options on their bank accounts. Due to capital controls they cannot place their money in foreign banks where interest rates are higher. In absence of a comprehensive social welfare state, retirement provisions become a major concern for many citizens.

Lacking other saving opportunities, many Chinese invest their money in real estate as a saving asset, driving real estate prices up. This confronts less affluent citizens with serious difficulties when they are looking for habitation in urban areas. Infamously high housing prices, e.g. in Shanghai, have become a major social issue, also reflected in popular culture.

One interesting example of an important public figure arguing along these lines is the head of the US Federal Reserve, Ben Bernanke. With his theory of the 'savings glut' he has been trying to *persuade* China that their economic policies are not only hurting the international markets but also turns out to have a negative effect on most Chinese citizens.

In a speech at the Chinese Academy of Social Sciences in Beijing he argued that: "*Greater scope for market forces to determine the value of the RMB would also reduce an important distortion in the Chinese economy, namely, the effective distortion that an undervalued currency provides for Chinese*

*firms that focus on exporting rather than producing for the domestic market*”<sup>55</sup>.

In line with his ‘savings glut’ theory, Bernanke went on to point out that one of the most effective ways to increase the welfare of Chinese households would be to reduce the domestic savings rate. This argument plays nicely together with a line of reasoning he presents at a lecture in Virginia a year earlier, which shows a significant shift away from the manufacturing driven argumentation.<sup>56</sup> In this speech the main argument centers around how the ‘savings glut’ distorts international economy. As the Chinese store their wealth in banks instead of spending it in the domestic market, it gets reinvested for a big part in international projects, and particularly the US is a big receiver of foreign investment, which in turn creates a current account deficit. The main point of this argument is the idea that the current account deficit or surplus is largely driven by the international economic environment and as such is not solely a domestic issue. Following this line of reason, it is not solely the responsibility of the US to eliminate their deficit with budget cuts, but equally the responsibility of large international players like to China to take measures to assure a balanced world economic. In the particular case of China this could be done for example by strengthening their currency.

However while this argumentation was directed at China, there is no indication that it changed any policies. It is unlikely that Chinese economists were not already aware of at least some of the points that Bernanke proposed, and even if they weren’t, there would be little political will to take advice from the US.

## 5 Discussion

Seeing that one decade of intense discussion hasn’t answered the question of whether China should appreciate their currency, so it might be a little ambitious to aim for a definitive conclusion on this matter. Instead, what we set out to do in the following part is two-fold. We will first try to look at how the viewpoints from the two sides of the academic debate diverges. Secondly we will assess the political debate looking at the motivations to argue one way or another.

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<sup>55</sup>The transcribed speech Bernanke [2006] used the term ‘subsidy’ which created a lot of debate in the US, but the word was never uttered by Bernanke himself while giving the actual speech Reuters [2006]

<sup>56</sup>Bernanke [2005].

## 5.1 Academic Tug of War

At the center stage of the Academic debate we see the discussion surrounding the equilibrium exchange rate. Every single way we choose to measure this rate shows us that the RMB is severely under appreciated creating a strong argument in favor of appreciation. Supporting this idea we have Goldstein and Lardy enumerating how the Chinese state is guilty of doing everything you would expect a currency manipulator to do.

However, the response in defense of China's economic policies points out that this critique completely misses the point. Their argument is shortly summarized in two parts: 1) The monetary policy of China is a reasonable response in light of the economic circumstances and 2) Historically other nations such as Vietnam and Japan has been pressured into appreciating their currency with negative consequences to follow.

Economically speaking this highlights a clash of economic cultures. On the one side we see an economics tradition based on complex modelling and theoretical frameworks to understand the world. The idea driving this work is that we can deduce economic policies based on a deep understanding of the key factors the play a role in macro economics, i.e. by estimating a theoretical property such as the equilibrium exchange rate, we can deduce the policy that should be implemented.

The other side of the debate is represented in a larger degree by a practical and empirical method. Here the theoretical argument is discarded because it is too vague and imprecise. Instead the policy is based on using a set of practical tools (sterilization, foreign currency accumulation, etc.) used to obtain growth and prosperity. From this angle it is much more important to look at past experiences from other countries and learn practical lessons from their mistakes and successes, than it is to adhere to a theoretical model of how the perfect economic policy would look like.

## 5.2 Motivations

While the theoretical approach can easily look far fetched and out of touch with reality, the danger of the practical approach is that it might miss the big picture and end up shortsightedly driving the world economy towards a sub optimal economic environment. After all, a well-functioning domestic economic policy might easily work at the expense of neighboring nations, like the classical "beggar thy neighbor" situations introduced earlier. No man is an island, and similarly no economy stands alone in a global market. The question that lingers is to what extend a nation should be limited in

it's internal affairs to the benefit of other countries.

Historically China has been a small player on the world market for most of the past century despite its population size. Being a small player comes with the advantage that your economic policies affect other countries in a very minor degree which permits a wide liberty in setting them. China's economy can by no means be called small anymore, but the attitude put forth in their economic policies still mirrors those of a China that would best like to be left to do as they wish with regards to their own internal affairs.

The US on the other hand has historically been promoting free trade with the rest of the world, using IMF and WTO as instruments to open up the global market partly to their own advantage. Economically speaking the US has a history of meddling in the affairs of other countries convincing for example Japan and Vietnam to appreciate their currencies when it was seen as economically beneficial for the US that they do so.

These extremes set the stage for negotiations where any argument made by the opponent side can easily be distorted to reflect the more extreme part of their position. If the US tries to find common ground on currency speculation they can quickly be labeled as imperialistic, while any attempt China makes to retain control over their economic development could be categorized as protectionist.

### 5.2.1 Manufacturing Jobs

In his article "Assessing China's Exchange Rate Regime", Jeffrey Frankel and Shang-Jin Wei<sup>57</sup> starts by looking at the yearly US Treasury Reports. They found that the whether China would be labeled as a currency manipulator correlated not just with the current account ration as expected but also with metrics that aren't usually deemed to have an effect on China's currency policy such as the trade balance or the unemployment rate on election years.

There is no doubt that China to a certain extend serves as a scapegoat when manufacturing jobs are disappearing, and not without right. Manufacturing jobs are to a large extend being moved away from industrialized countries, often because of circumstances similar to those that the company Fluttr faced in our fictional example. It is however nonsense to expect that raised exchange rates is enough to stop this trend. If jobs aren't going to China, there are countries like Malaysia, Indonesia and India ready to step in, and

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if the RMB strengthens, those countries are where the jobs will go, and not the US.

With this in mind it's clear that presidential candidates like Obama in 2008 and Romney in 2012 are merely paying lip service to the large share of dissatisfied voter groups that they hope will help them win the election. In US domestic policy China is an easy target because invoking the Chinese problem evades looking at domestic causes for the same problems.

This doesn't mean however that China couldn't potentially gain from strengthening the RMB. When Bernanke argues that raising the value of the RMB could be a win/win, he is not necessarily merely protecting national interests by perpetrating the myth of the disgruntled manufacturing industry. As we mention earlier, China needs to take strong measures to prevent inflation on their domestic market. On top of that the cheap RMB makes it difficult for Chinese people to buy products abroad, limiting their experienced prosperity in spite of the staggering growth rates.

### **5.2.2 Responsibilities**

Academics are free to poke at China with a stick arguing that the RMB is under valued according to this or that model, and American politicians and manufacturers can complain about the job losses that China's policy is leading to. However they won't get results unless either Chinese policy makers decide that it is in their best interest to appreciate the RMB or an international organization is able to pressure China into doing it anyway. Outside of a modest appreciation between 2006 and 2010 neither happened despite consistent pressure from the US. Depending on your viewpoint this end result can be seen either as a confirmation that China never had an obligation to react, or that China neglected to step up to their responsibilities as a major economic power.

The idea of a savings glut introduced by the chair of the US Fed Ben Bernanke gives a strong argument for the latter by demonstrating how Chinese policies create a situation where enormous amounts of liquidity is created by the Chinese savings rate which gives an imbalanced investment abroad which to a certain extent explains both the current account deficits of the states and part of the current account surplus experienced by China. Because this savings rate is tied up to domestic economic policies in China but has global consequences, it would be frivolous to let China get away with manipulating it in ways that hurt other economies.

China is naturally not interested in giving up this kind of autonomy, and so far they have not seen any initiative that could challenge them to that right.

In the current situation it is hard to judge if they are taking unfair advantage of a broken system, or if they have every right to remain sceptic of foreign attempts at influencing their policies. However what the conflict shows very clearly is that had it been the case that China had been wrongfully taking advantage of their position as a major economic player, there would have been no system currently in place that would have been able to stop that from happening, outside of a full blown tariff war with the US.

In a future scenario it is likely that China will stand at the other side of the argument losing manufacturing jobs to poorer nations like Indonesia or India and arguing that these countries in turn are undervaluating their currency. When that time comes, it will hopefully be a little clearer when exactly this kind of policies is actually hurtful to the world economy, and not just an opportunity for poorer countries to get a foot in the door of mass manufacturing.

## References

Paul Krugman and Robin Wells. *Macroeconomics*. Worth Publishers, 2008.

Federal Reserve Bank of St. Louis Economic Research. Exports of goods and services in china. URL <http://research.stlouisfed.org/fredgraph.png?g=dWg>.

Owen Humpage and Beth Mowry. Out of whack—the renminbi.

Wang Xiaoyi. China's exchange rate and monetary policies. BIS Papers 57, Bank of International Settlements, [www.bis.org/publ/bppdf/bisap57.pdf](http://www.bis.org/publ/bppdf/bisap57.pdf), 2011.

Denis Tao Yang, Junsen Zhang, and Shaojie Zhou. Why are saving rates so high in china? Technical Report 16771, National Bureau of Economic Research, 2011. URL <http://www.nber.org/papers/w16771>.

Swiss Federal Statistics Office. National economy - savings rate of households. URL <http://www.bfs.admin.ch/bfs/portal/en/index/themen/00/09/blank/ind42.indicator.420004.420001.html>.

Charles Wyplosz. Is an undervalued renminbi the source of global imbalances? In Simon J Evenett, editor, *The US-Sino Currency Dispute: New Insights from Economics, Politics and Law*, chapter 5. VoxEU, 2010.

- William R. Cline and John Williamson. 2009 estimates of fundamental equilibrium exchange rates. Policy Briefs PB10-15, Peterson Institute for International Economics, June 2009. URL <http://ideas.repec.org/p/iie/pbrief/pb10-15.html>.
- William R. Cline and John Williamson. Estimates of fundamental equilibrium exchange rates, may 2012. Policy Briefs PB10-15, Peterson Institute for International Economics, June 2012. URL <http://ideas.repec.org/p/iie/pbrief/pb10-15.html>.
- Yin-Wong Cheung, Menzie D. Chinn, and Eiji Fujii. China's current account and exchange rate. NBER Working Paper Series 14673, National Bureau of Economic Research, 2009.
- Yin-Wong Cheung, Menzie D. Chinn, and Eiji Fujii. Measuring misalignment: Latest estimates for the chinese renminbi. In Simon J Evenett, editor, *The US-Sino Currency Dispute: New Insights from Economics, Politics and Law*, chapter 10. VoxEU, 2010.
- Arvind Subramanian. New ppp-based estimates of renminbi undervaluation and policy 69 implications. In Simon J Evenett, editor, *The US-Sino Currency Dispute: New Insights from Economics, Politics and Law*, chapter 9. VoxEU, 2010.
- Jeffrey Frankel. The renminbi since 2005. In Simon J Evenett, editor, *The US-Sino Currency Dispute: New Insights from Economics, Politics and Law*, chapter 7. VoxEU, 2010.
- Philip . Levy. The united states and the prc: Macroeconomic imbalances and economic diplomacy. ADBI Working Papers 328, Asian Development Bank Institute, 2011a. URL <http://EconPapers.repec.org/RePEc:ris:adbiwp:0328>.
- Is the Chinese currency, the renminbi, dangerously undervalued and a threat to the global economy?*, 2003. The international Economy Magazine. URL [http://www.international-economy.com/TIE\\_Sp03\\_ChinaCurrencySymp.pdf](http://www.international-economy.com/TIE_Sp03_ChinaCurrencySymp.pdf).
- Paul Krugman. Chinese new year.
- Barack Obama. Sen. barack obama at aam presidential candidates town, 2008. URL [http://www.youtube.com/watch?v=4Ai\\_FBe6R9w](http://www.youtube.com/watch?v=4Ai_FBe6R9w).



- Mitt Romney. China is a currency manipulator; impose tariffs & start a trade war, 2012. URL <http://www.youtube.com/watch?v=eur8rYBotxg>.
- Barry Naughton. A new team faces unprecedented economic challenges, 2008.
- Shaun Breslin. Great expectations: (competing) domestic drivers of chinese policy deliberations. In Simon J Evenett, editor, *The US-Sino Currency Dispute: New Insights from Economics, Politics and Law*, chapter 26. VoxEU, 2010.
- Yamei Wang. China to expand import for balanced growth in trade: Premier. *Xinhua English News*, 2011. URL [http://news.xinhuanet.com/english2010/china/2011-10/14/c\\_131192073.htm](http://news.xinhuanet.com/english2010/china/2011-10/14/c_131192073.htm).
- C.R. Hughes. Chinese nationalism in the global era. *openDemocracy. net*, 2006.
- Timothy Ryan. H.r. 2378 (111th): Currency reform for fair trade act, May 2009. URL <http://www.govtrack.us/congress/bills/111/hr2378>.
- H. Kuroda. The “nixon shock” and the “plaza agreement”: Lessons from two seemingly failed cases of japan’s exchange rate policy. *china & World economy*, 12(1):3–10, 2004.
- Philip . Levy. The united states and the prc: Macroeconomic imbalances and economic diplomacy. ADBI Working Papers 328, Asian Development Bank Institute, 2011b. URL <http://EconPapers.repec.org/RePEc:ris:adbiwp:0328>.
- Reuters. Imf head eyes global currency change, presses on yuan, 2009. URL <http://www.reuters.com/article/2009/11/17/us-imf-idUSTRE5AG0I720091117>.
- China Daily. China refutes claims rmb undervalued, 2011. URL <http://english.people.com.cn/90001/90778/90859/7451845.html>.
- Michael Waibel. Retaliating against exchange-rate manipulation under wto rules. In Simon J Evenett, editor, *The US-Sino Currency Dispute: New Insights from Economics, Politics and Law*, chapter 16. VoxEU, 2010.
- Ben S. Bernanke. The chinese economy: Progress and challenges. Speech, United States Federal Reserve System, 2006. URL <http://www.federalreserve.gov/newsevents/speech/Bernanke20061215a.htm>.

Reuters. Bernanke backs off calling weak yuan a 'subsidy', 2006. URL [http://www.cnbc.com/id/16215247/Bernanke\\_Backs\\_Off\\_Calling\\_Weak\\_Yuan\\_a\\_Subsidy](http://www.cnbc.com/id/16215247/Bernanke_Backs_Off_Calling_Weak_Yuan_a_Subsidy).

Ben S. Bernanke. The global saving glut and the u.s. current account deficit. Speech, United States Federal Reserve System, 2005. URL <http://www.federalreserve.gov/boarddocs/speeches/2005/200503102/>.